

=> fil reg  
FILE 'REGISTRY' ENTERED AT 08:59:26 ON 24 AUG 2004  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
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Property values tagged with IC are from the ZIC/VINITI data file  
provided by InfoChem.

STRUCTURE FILE UPDATES: 23 AUG 2004 HIGHEST RN 731771-88-3  
DICTIONARY FILE UPDATES: 23 AUG 2004 HIGHEST RN 731771-88-3

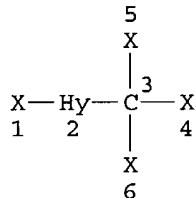
TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more  
information enter HELP PROP at an arrow prompt in the file or refer  
to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d sta que 135  
L13 990983 SEA FILE=REGISTRY ABB=ON PLU=ON 46.156.30/RID AND NR>=2  
L15 STR



#### NODE ATTRIBUTES:

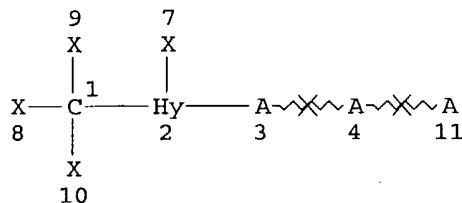
DEFAULT MLEVEL IS ATOM  
GGCAT IS MCY UNS AT 2  
DEFAULT ECLEVEL IS LIMITED  
ECOUNT IS E5 C E1 N AT 2

#### GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 6

#### STEREO ATTRIBUTES: NONE

L17 10308 SEA FILE=REGISTRY SUB=L13 SSS FUL L15  
L19 STR



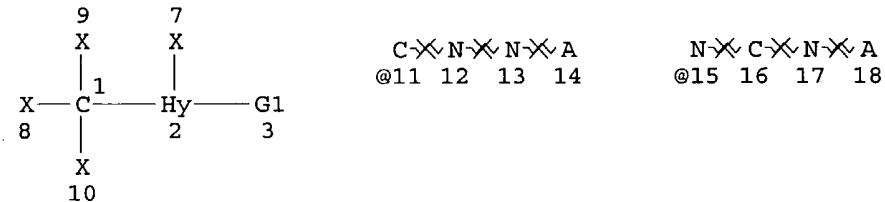
#### NODE ATTRIBUTES:

CONNECT IS M1 RC AT 3  
CONNECT IS M1 RC AT 4  
CONNECT IS M1 RC AT 11  
DEFAULT MLEVEL IS ATOM

GGCAT IS MCY UNS AT 2  
 DEFAULT ECLEVEL IS LIMITED  
 ECOUNT IS E5 C E1 N AT 2

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE  
 L21 7865 SEA FILE=REGISTRY SUB=L17 CSS FUL L19  
 L23 STR



N×C×C×A @19 20 21 22      N×N×C×A @23 24 25 26      C×O×C×A @27 28 29 30      C×N×C×A @31 32 33 34

O×N×C×A @35 36 37 38      C×C×C×A @39 40 41 42

VAR G1=11/15/19/23/27/31/35/39

NODE ATTRIBUTES:

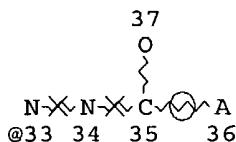
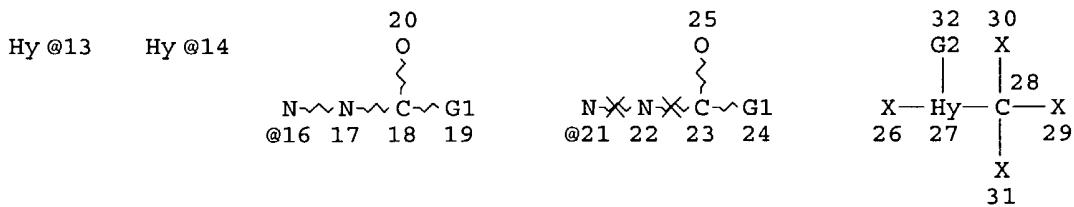
NSPEC IS R AT 14  
 NSPEC IS R AT 18  
 NSPEC IS R AT 22  
 NSPEC IS R AT 26  
 NSPEC IS R AT 30  
 NSPEC IS R AT 34  
 NSPEC IS R AT 38  
 NSPEC IS R AT 42

DEFAULT MLEVEL IS ATOM

GGCAT IS MCY UNS AT 2  
 DEFAULT ECLEVEL IS LIMITED  
 ECOUNT IS E5 C E1 N AT 2

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 39

STEREO ATTRIBUTES: NONE  
 L25 3405 SEA FILE=REGISTRY SUB=L21 SSS FUL L23  
 L32 STR



VAR G1=13/14  
 VAR G2=16/21/33  
 NODE ATTRIBUTES:  
 NSPEC IS R AT 36  
 CONNECT IS E1 RC AT 20  
 CONNECT IS E1 RC AT 25  
 CONNECT IS E1 RC AT 37  
 DEFAULT MLEVEL IS ATOM  
 MLEVEL IS CLASS AT 36  
 GGCAT IS MCY UNS AT 27  
 DEFAULT ECLEVEL IS LIMITED  
 ECOUNT IS UNLIMITED AT 36  
 ECOUNT IS M1 O AT 13  
 ECOUNT IS M1 N AT 14  
 ECOUNT IS E5 C E1 N AT 27

GRAPH ATTRIBUTES:  
 RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 24

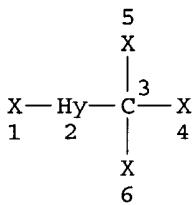
STEREO ATTRIBUTES: NONE  
 L35 84 SEA FILE=REGISTRY SUB=L25 SSS FUL L32

100.0% PROCESSED 283 ITERATIONS 84 ANSWERS  
 SEARCH TIME: 00.00.01

=> d sta que 145  
 L11 214 SEA FILE=REGISTRY ABB=ON PLU=ON (116389-04-9/BI OR 118-91-2/B  
 I OR 118386-83-7/BI OR 175277-50-6/BI OR 175277-52-8/BI OR  
 1777-82-8/BI OR 276875-21-9/BI OR 3034-19-3/BI OR 326476-24-8/B  
 I OR 326807-13-0/BI OR 326807-14-1/BI OR 326807-15-2/BI OR  
 326807-16-3/BI OR 326807-17-4/BI OR 326807-18-5/BI OR 326807-19  
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 326807-23-2/BI OR 326807-24-3/BI OR 326807-25-4/BI OR 326807-26  
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 326807-65-2/BI OR 326807-66-3/BI OR 326807-67-4/BI OR 326807-68  
 -5/BI OR 326807-69-6/BI OR 326807-70-9/BI OR 326807-71-0/BI OR  
 326807-72-1/BI OR 326807-73-2/BI OR 326807-74-3/BI OR 326807-75  
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 326807-86-7/BI OR 326807-87-8/BI OR 326807-88-9/BI OR 326807-89  
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 326807-93-6/BI OR 326807-94-7/BI OR 326807-95-8/BI OR 326807-96  
 -9/BI OR 326807-97-0/BI OR 326807-98-1/BI OR 326807-99-2/BI OR  
 326808-00-8/BI OR 326808-01-9/BI OR 326808-02-0/BI OR 326808-03  
 -

L13 990983 SEA FILE=REGISTRY ABB=ON PLU=ON 46.156.30/RID AND NR>=2  
 L14 193 SEA FILE=REGISTRY ABB=ON PLU=ON L11 AND L13  
 L15 STR



## NODE ATTRIBUTES:

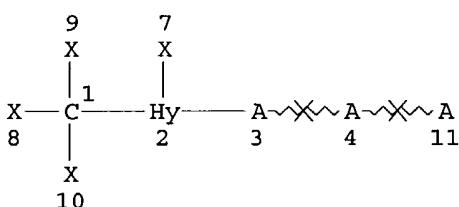
DEFAULT MLEVEL IS ATOM  
 GGCAT IS MCY UNS AT 2  
 DEFAULT ECLEVEL IS LIMITED  
 ECOUNT IS E5 C E1 N AT 2

## GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 6

## STEREO ATTRIBUTES: NONE

L17 10308 SEA FILE=REGISTRY SUB=L13 SSS FUL L15  
 L19 STR



## NODE ATTRIBUTES:

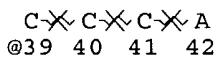
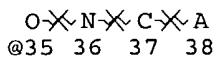
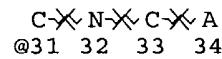
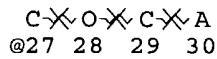
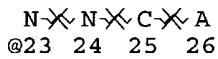
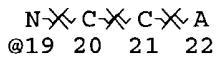
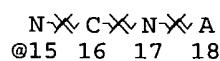
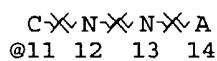
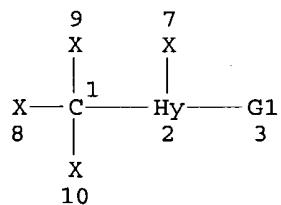
CONNECT IS M1 RC AT 3  
 CONNECT IS M1 RC AT 4  
 CONNECT IS M1 RC AT 11  
 DEFAULT MLEVEL IS ATOM  
 GGCAT IS MCY UNS AT 2  
 DEFAULT ECLEVEL IS LIMITED  
 ECOUNT IS E5 C E1 N AT 2

## GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 9

## STEREO ATTRIBUTES: NONE

L21 7865 SEA FILE=REGISTRY SUB=L17 CSS FUL L19  
 L23 STR



VAR G1=11/15/19/23/27/31/35/39

NODE ATTRIBUTES:

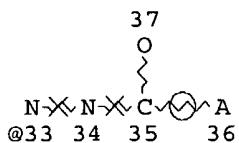
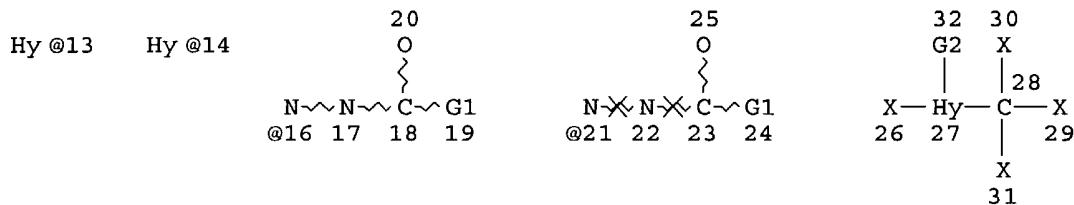
NSPEC	IS R	AT	14
NSPEC	IS R	AT	18
NSPEC	IS R	AT	22
NSPEC	IS R	AT	26
NSPEC	IS R	AT	30
NSPEC	IS R	AT	34
NSPEC	IS R	AT	38
NSPEC	IS R	AT	42
DEFAULT MLEVEL IS ATOM			
GGCAT	IS MCY	UNS	AT 2
DEFAULT ECLEVEL IS LIMITED			
ECOUNT	IS E5	C E1 N	AT 2

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 39

STEREO ATTRIBUTES: NONE

L25 3405 SEA FILE=REGISTRY SUB=L21 SSS FUL L23  
L32 STR



VAR G1=13/14

VAR G2=16/21/33

NODE ATTRIBUTES:

NSPEC	IS R	AT	36
CONNECT	IS E1	RC	AT 20
CONNECT	IS E1	RC	AT 25
CONNECT	IS E1	RC	AT 37

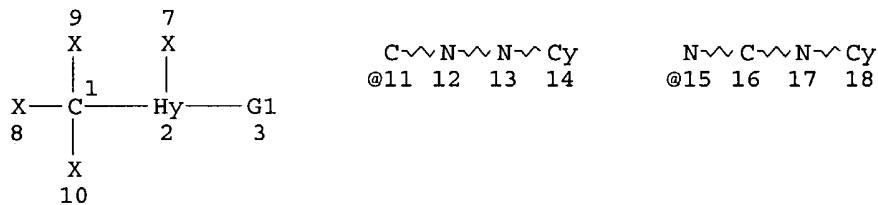
DEFAULT MLEVEL IS ATOM  
 MLEVEL IS CLASS AT 36  
 GGCAT IS MCY UNS AT 27  
 DEFAULT ECLEVEL IS LIMITED  
 ECOUNT IS UNLIMITED AT 36  
 ECOUNT IS M1 O AT 13  
 ECOUNT IS M1 N AT 14  
 ECOUNT IS E5 C E1 N AT 27

## GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 24

## STEREO ATTRIBUTES: NONE

L35 84 SEA FILE=REGISTRY SUB=L25 SSS FUL L32  
 L36 13 SEA FILE=REGISTRY ABB=ON PLU=ON L35 AND (C15H9CLF3N3O3 OR  
 C21H19CLF3N5O3 OR C19H16CLF3N4O2 OR C17H12CLF3N4O2 OR C16H13CLF  
 3N3O2 OR C17H11CLF3N3O3 OR C19H12CLF3N4O2 OR C22H14BRCLF3N3O3  
 OR C25H17CLF3N3O3 OR C15H10CLF3N4O2 OR C18H13CLF3N3O3 OR  
 C15H8CLF3N4O4 OR C15H13CLF3N3O4)  
 L37 3321 SEA FILE=REGISTRY ABB=ON PLU=ON L25 NOT L35  
 L38 5 SEA FILE=REGISTRY ABB=ON PLU=ON L36 AND (C21H19CLF3N5O3 OR  
 C19H16CLF3N4O2 OR C17H12CLF3N4O2 OR C17H11CLF3N3O3 OR C18H13CLF  
 3N3O3)  
 L39 8 SEA FILE=REGISTRY ABB=ON PLU=ON L36 NOT L38  
 L40 169 SEA FILE=REGISTRY ABB=ON PLU=ON L11 AND L25  
 L41 24 SEA FILE=REGISTRY ABB=ON PLU=ON L14 NOT L40  
 L42 22 SEA FILE=REGISTRY ABB=ON PLU=ON L41 NOT C13H9CL3N2O  
 L43 3153 SEA FILE=REGISTRY ABB=ON PLU=ON L37 NOT (L39 OR L40 OR L42)  
 L44 STR



N~~C~~C~~Cy @19 20 21 22      N~~N~~C~~Cy @23 24 25 26      C~~O~~C~~Cy @27 28 29 30      C~~N~~C~~Cy @31 32 33 34

O~~N~~C~~Cy @35 36 37 38      C~~C~~C~~Cy @39 40 41 42

VAR G1=11/15/19/23/27/31/35/39

## NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM  
 GGCAT IS MCY UNS AT 2  
 DEFAULT ECLEVEL IS LIMITED  
 ECOUNT IS E5 C E1 N AT 2

## GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 39

## STEREO ATTRIBUTES: NONE

L45 522 SEA FILE=REGISTRY SUB=L43 SSS FUL L44

SEARCH TIME: 00.00.01

=&gt; d sta que 149

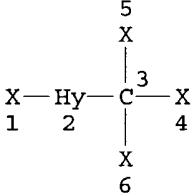
L11        214 SEA FILE=REGISTRY ABB=ON PLU=ON (116389-04-9/BI OR 118-91-2/B  
 I OR 118386-83-7/BI OR 175277-50-6/BI OR 175277-52-8/BI OR  
 1777-82-8/BI OR 276875-21-9/BI OR 3034-19-3/BI OR 326476-24-8/B  
 I OR 326807-13-0/BI OR 326807-14-1/BI OR 326807-15-2/BI OR  
 326807-16-3/BI OR 326807-17-4/BI OR 326807-18-5/BI OR 326807-19  
 -6/BI OR 326807-20-9/BI OR 326807-21-0/BI OR 326807-22-1/BI OR  
 326807-23-2/BI OR 326807-24-3/BI OR 326807-25-4/BI OR 326807-26  
 -5/BI OR 326807-27-6/BI OR 326807-28-7/BI OR 326807-29-8/BI OR  
 326807-30-1/BI OR 326807-31-2/BI OR 326807-32-3/BI OR 326807-33  
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 326807-58-3/BI OR 326807-59-4/BI OR 326807-60-7/BI OR 326807-61  
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 -4/BI OR 326807-76-5/BI OR 326807-77-6/BI OR 326807-78-7/BI OR  
 326807-79-8/BI OR 326807-80-1/BI OR 326807-81-2/BI OR 326807-82  
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 326807-86-7/BI OR 326807-87-8/BI OR 326807-88-9/BI OR 326807-89  
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 326807-93-6/BI OR 326807-94-7/BI OR 326807-95-8/BI OR 326807-96  
 -9/BI OR 326807-97-0/BI OR 326807-98-1/BI OR 326807-99-2/BI OR  
 326808-00-8/BI OR 326808-01-9/BI OR 326808-02-0/BI OR 326808-03

-

L13        990983 SEA FILE=REGISTRY ABB=ON PLU=ON 46.156.30/RID AND NR&gt;=2

L14        193 SEA FILE=REGISTRY ABB=ON PLU=ON L11 AND L13

L15        STR



## NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

GGCAT IS MCY UNS AT 2

DEFAULT ECLEVEL IS LIMITED

ECOUNT IS E5 C E1 N AT 2

## GRAPH ATTRIBUTES:

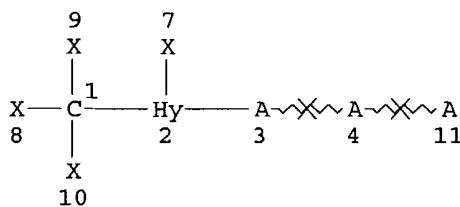
RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 6

## STEREO ATTRIBUTES: NONE

L17        10308 SEA FILE=REGISTRY SUB=L13 SSS FUL L15

L19        STR



## NODE ATTRIBUTES:

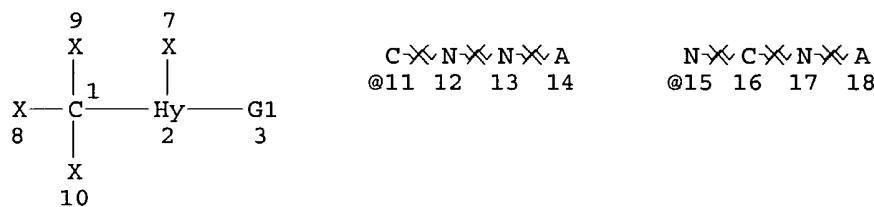
CONNECT IS M1 RC AT 3  
 CONNECT IS M1 RC AT 4  
 CONNECT IS M1 RC AT 11  
 DEFAULT MLEVEL IS ATOM  
 GGCAT IS MCY UNS AT 2  
 DEFAULT ECLEVEL IS LIMITED  
 ECOUNT IS E5 C E1 N AT 2

## GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 9

## STEREO ATTRIBUTES: NONE

L21 7865 SEA FILE=REGISTRY SUB=L17 CSS FUL L19  
 L23 STR



N×C×C×A  
@19 20 21 22

N×N×C×A  
@23 24 25 26

C×O×C×A  
@27 28 29 30

C×N×C×A  
@31 32 33 34

O×N×C×A  
@35 36 37 38

C×C×C×A  
@39 40 41 42

VAR G1=11/15/19/23/27/31/35/39

## NODE ATTRIBUTES:

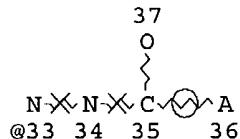
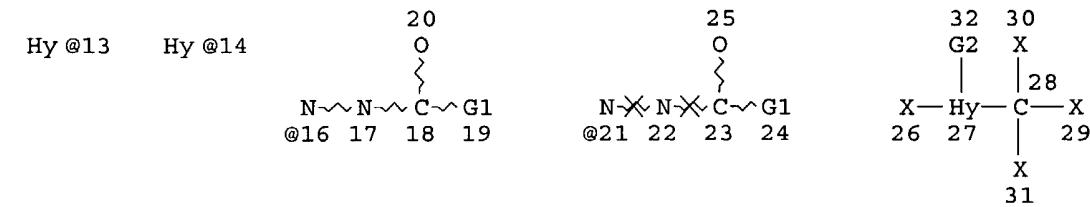
NSPEC IS R AT 14  
 NSPEC IS R AT 18  
 NSPEC IS R AT 22  
 NSPEC IS R AT 26  
 NSPEC IS R AT 30  
 NSPEC IS R AT 34  
 NSPEC IS R AT 38  
 NSPEC IS R AT 42  
 DEFAULT MLEVEL IS ATOM  
 GGCAT IS MCY UNS AT 2  
 DEFAULT ECLEVEL IS LIMITED  
 ECOUNT IS E5 C E1 N AT 2

## GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
 NUMBER OF NODES IS 39

STEREO ATTRIBUTES: NONE

L25 3405 SEA FILE=REGISTRY SUB=L21 SSS FUL L23  
L32 STR



VAR G1=13/14

VAR G2=16/21/33

NODE ATTRIBUTES:

NSPEC IS R AT 36  
CONNECT IS E1 RC AT 20  
CONNECT IS E1 RC AT 25  
CONNECT IS E1 RC AT 37  
DEFAULT MLEVEL IS ATOM  
MLEVEL IS CLASS AT 36  
GGCAT IS MCY UNS AT 27  
DEFAULT ECLEVEL IS LIMITED  
ECOUNT IS UNLIMITED AT 36  
ECOUNT IS M1 O AT 13  
ECOUNT IS M1 N AT 14  
ECOUNT IS E5 C E1 N AT 27

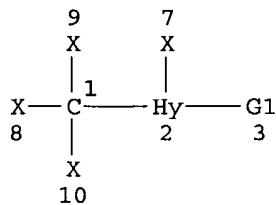
GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 24

STEREO ATTRIBUTES: NONE

L35 84 SEA FILE=REGISTRY SUB=L25 SSS FUL L32  
L36 13 SEA FILE=REGISTRY ABB=ON PLU=ON L35 AND (C15H9CLF3N3O3 OR  
C21H19CLF3N5O3 OR C19H16CLF3N4O2 OR C17H12CLF3N4O2 OR C16H13CLF  
3N3O2 OR C17H11CLF3N3O3 OR C19H12CLF3N4O2 OR C22H14BRCLF3N3O3  
OR C25H17CLF3N3O3 OR C15H10CLF3N4O2 OR C18H13CLF3N3O3 OR  
C15H8CLF3N4O4 OR C15H13CLF3N3O4)  
L37 3321 SEA FILE=REGISTRY ABB=ON PLU=ON L25 NOT L35  
L38 5 SEA FILE=REGISTRY ABB=ON PLU=ON L36 AND (C21H19CLF3N5O3 OR  
C19H16CLF3N4O2 OR C17H12CLF3N4O2 OR C17H11CLF3N3O3 OR C18H13CLF  
3N3O3)  
L39 8 SEA FILE=REGISTRY ABB=ON PLU=ON L36 NOT L38  
L40 169 SEA FILE=REGISTRY ABB=ON PLU=ON L11 AND L25  
L41 24 SEA FILE=REGISTRY ABB=ON PLU=ON L14 NOT L40  
L42 22 SEA FILE=REGISTRY ABB=ON PLU=ON L41 NOT C13H9CL3N2O  
L43 3153 SEA FILE=REGISTRY ABB=ON PLU=ON L37 NOT (L39 OR L40 OR L42)  
L44 STR



C~~N~~N~~CY  
@11 12 13 14

N~~C~~N~~CY  
@15 16 17 18

N~~C~~C~~Cy  
@19 20 21 22

N~~N~~C~~Cy  
@23 24 25 26

C~~O~~C~~CY  
@27 28 29 30

C~~N~~C~~Cy  
@31 32 33 34

O~~N~~C~~Cy  
@35 36 37 38

C~~C~~C~~Cy  
@39 40 41 42

VAR G1=11/15/19/23/27/31/35/39

NODE ATTRIBUTES:

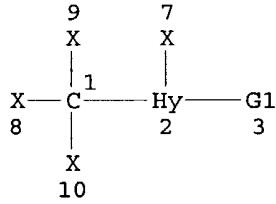
DEFAULT MLEVEL IS ATOM  
GGCAT IS MCY UNS AT 2  
DEFAULT ECLEVEL IS LIMITED  
ECOUNT IS E5 C E1 N AT 2

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 39

STEREO ATTRIBUTES: NONE

L45 522 SEA FILE=REGISTRY SUB=L43 SSS FUL L44  
L46 STR



C>X~N>X~N~~CY  
@11 12 13 14

N>X~C>X~N~~CY  
@15 16 17 18

N>X~C>X~C~~Cy  
@19 20 21 22

N>X~N>X~C~~Cy  
@23 24 25 26

C>X~O>X~C~~CY  
@27 28 29 30

C>X~N>X~C~~Cy  
@31 32 33 34

O>X~N>X~C~~Cy  
@35 36 37 38

C>X~C>X~C~~Cy  
@39 40 41 42

VAR G1=11/15/19/23/27/31/35/39

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM  
GGCAT IS MCY UNS AT 2  
DEFAULT ECLEVEL IS LIMITED  
ECOUNT IS E5 C E1 N AT 2

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 39

STEREO ATTRIBUTES: NONE

L47 2631 SEA FILE=REGISTRY ABB=ON PLU=ON L43 NOT L45  
L48 87 SEA FILE=REGISTRY SUB=L47 SSS FUL L46  
L49 2544 SEA FILE=REGISTRY ABB=ON PLU=ON L47 NOT L48

=> d his

(FILE 'HOME' ENTERED AT 07:36:02 ON 24 AUG 2004)  
DEL HIS

FILE 'HCAPLUS' ENTERED AT 07:38:16 ON 24 AUG 2004  
L1 1 S (WO2000-EP8268 OR GB99-19558)/AP,PRN  
E COOKE T/AU  
L2 76 S E3-E12,E34,E35  
E HARDY D/AU  
L3 218 S E3-E18,E23-E34  
E MOLONEY B/AU  
L4 16 S E5-E7  
E OMAHONY/AU  
E O MAHONY/AU  
L5 41 S E59,E61,E66,E67  
E EPTTETT M/AU  
E PETTETT M/AU  
L6 6 S E4-E6  
E PATEL G/AU  
L7 423 S E3-E19  
E PATEL GIT/AU  
L8 13 S E3-E5  
E SCHNATTERER S/AU  
L9 17 S E4  
E AVANTI/PA,CS  
L10 2162 S E4 OR AVENTIS?/PA,CS  
SEL RN L1

FILE 'REGISTRY' ENTERED AT 07:41:45 ON 24 AUG 2004  
L11 214 S E1-E214  
L12 200 S L11 AND NC5/ES  
L13 990983 S 46.156.30/RID AND NR>=2  
L14 193 S L11 AND L13  
L15 STR  
L16 50 S L15 SAM SUB=L13  
L17 10308 S L15 FUL SUB=L13  
SAV TEMP L17 QAZI049/A  
L18 STR L15  
L19 STR L18  
L20 50 S L19 CSS SAM SUB=L17  
L21 7865 S L19 CSS FUL SUB=L17  
SAV TEMP L21 QAZI049A/A  
L22 STR L19  
L23 STR L22  
L24 50 S L23 SAM SUB=L21  
L25 3405 S L23 FUL SUB=L21  
SAV TEMP L25 QAZI049B/A  
L26 STR L19  
L27 STR L26  
L28 0 S L26 SAM SUB=L25  
L29 0 S L26 FUL SUB=L25  
SAV L29 QAZI049C/A  
L30 0 S L26 SAM SUB=L21  
L31 0 S L26 FUL SUB=L21  
SAV L31 QAZI049D/A  
L32 STR L27  
L33 7 S L32 SAM SUB=L21

L34           7 S L32 SAM SUB=L25  
 L35           84 S L32 FUL SUB=L25  
               SAV L35 QAZI049E/A  
 L36           13 S L35 AND (C15H9CLF3N3O3 OR C21H19CLF3N5O3 OR C19H16CLF3N4O2 OR  
 L37           3321 S L25 NOT L35  
               5 S L36 AND (C21H19CLF3N5O3 OR C19H16CLF3N4O2 OR C17H12CLF3N4O2 O  
 L38           8 S L36 NOT L38  
 L39           169 S L11 AND L25  
 L40           24 S L14 NOT L40  
 L41           22 S L41 NOT C13H9CL3N2O  
 L42           3153 S L37 NOT L39,L40,L42  
 L43           STR L23  
 L44           522 S L44 FUL SUB=L43  
               SAV L45 QAZI049F/A  
 L45           STR L44  
 L46           2631 S L43 NOT L45  
 L47           87 S L46 FUL SUB=L47  
               SAV L48 QAZI049G/A  
 L48           2544 S L47 NOT L48

FILE 'HCAPIPLUS' ENTERED AT 08:41:21 ON 24 AUG 2004

L50           4 S L40 OR L42  
 L51           75 S L39,L45,L48  
 L52           403 S L49  
 L53           2 S L50 AND L1-L10  
 L54           3 S L50,L53 AND (PD<=20000811 OR PRD<=20000811 OR AD<=20000811)  
 L55           50 S L51 AND (PD<=20000811 OR PRD<=20000811 OR AD<=20000811)  
 L56           27 S (L39 OR L45 OR L48)(L)AGR/RL AND L55  
 L57           33 S L55 AND AGR?/SC,SX  
               E FUNGICID/CT  
 L58           7 S E24,E12 AND L55  
               E E12+ALL  
 L59           1 S E9,E10,E22-E32 AND L55  
 L60           6 S E35+OLD,NT,PFT,RT AND L55  
 L61           33 S L56-L60  
 L62           8 S L61 AND ?FUNG?  
 L63           0 S L61 AND ?MYCO?  
 L64           68 S LEPTOSPH? NODOR?  
 L65           5 S L NODOR?  
 L66           458 S LEPTOSPH?  
               E LEPTOSPH/CT  
 L67           315 S E4-E56  
               E E4+ALL  
 L68           310 S E5+NT  
 L69           1 S L55 AND L65-L68  
 L70           301 S L52 AND (PD<=20000811 OR PRD<=20000811 OR AD<=20000811)  
 L71           125 S L49 (L)AGR/RL AND L70  
 L72           0 S L70 AND L64-L68  
 L73           29 S L70 AND ?FUNG?  
               E FUNGICID/CT  
 L74           16 S L70 AND E35,E24  
               E E12+ALL  
 L75           14 S L70 AND E8,E22-E32  
 L76           10 S L70 AND E35+OLD,NT,PFT,RT  
 L77           13 S L71 AND L73-L76  
 L78           16 S L73-L76 NOT L77  
 L79           11 S L78 AND AGR?/SC,SX  
 L80           166 S L70 AND AGR?/SC,SX  
 L81           24 S L80 AND L73-L79  
 L82           29 S L69,L62,L77,L79,L81  
               1 S L82 AND NITROGEN COMPOUNDS/TI  
 L83           1 S L82 AND PYRIDYLMETHYLAMINE/TI  
 L84           27 S L82 NOT L83,L84

FILE 'REGISTRY' ENTERED AT 08:59:26 ON 24 AUG 2004

=> => fil hcaplus  
FILE 'HCAPLUS' ENTERED AT 09:06:01 ON 24 AUG 2004  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
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FILE COVERS 1907 - 24 Aug 2004 VOL 141 ISS 9  
FILE LAST UPDATED: 23 Aug 2004 (20040823/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> => d all hitstr 187

L87 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN  
AN 1988:524419 HCAPLUS  
DN 109:124419  
ED Entered STN: 14 Oct 1988  
TI Preparation of five-membered heterocycles with three heteroatoms, as pesticides  
IN Luethy, Christoph  
PA Hoffmann-La Roche, F., und Co. A.-G., Switz.  
SO Eur. Pat. Appl., 59 pp.  
CODEN: EPXXDW  
DT Patent  
LA German  
IC ICM C07D271-10  
ICS C07D413-04; C07D249-12; C07D285-12; A01N043-653; A01N043-82  
CC 5-4 (Agrochemical Bioregulators)  
Section cross-reference(s): 1, 28  
FAN.CNT 1

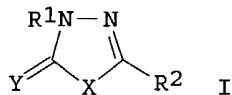
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 270061	A2	19880608	EP 1987-117698	19871130 <--
	EP 270061	A3	19881117		
	R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL				
	DK 8705709	A	19880602	DK 1987-5709	19871030 <--
	ZA 8708811	A	19880727	ZA 1987-8811	19871124 <--
	HU 45850	A2	19880928	HU 1987-5338	19871127 <--
	JP 63154678	A2	19880627	JP 1987-303067	19871130 <--
	BR 8706464	A	19880712	BR 1987-6464	19871130 <--
	AU 8782036	A1	19880602	AU 1987-82036	19871201 <--
	AU 602372	B2	19901011		
	US 4943583	A	19900724	US 1987-126804	19871201 <--
PRAI	CH 1986-4785		19861201 <--		
	CH 1987-3571		19870916 <--		

CLASS  
PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES

EP 270061 ICM C07D271-10  
 ICS C07D413-04; C07D249-12; C07D285-12; A01N043-653;  
 A01N043-82

OS MARPAT 109:124419

GI



AB The title heterocycles I [R1 = (un)substituted Ph or pyridyl; R2 = substituted Ph; X = O, S, NR3, Y = S, O; R3 = Me, halomethyl, 1-propynyl] are prepared as insecticides and acaricides (no data). A mixture of 2-chloro-6-fluoro-N'-( $\alpha,\alpha,\alpha$ -trifluoro-o-tolyl)benzhydrazide, phosgene and toluene was refluxed for 16 h to give 5-(2-chloro-6-fluorophenyl)-3-( $\alpha,\alpha,\alpha$ -trifluoro-o-tolyl)-1,3,4-oxadiazol-2(3H)one. An emulsion concentrate comprised I 250, N-methyl-2-pyrrolidone 400, Ankopal N-100 75, and Ca dodecylbenzenesulfonate 25 g and Solvesso-100 to 1L.

ST pesticide oxadiazolone triazolone thiadiazolone prepn

IT Pesticides

(heterocycles with 3-heteroatoms, preparation of)

IT 75-44-5, Phosgene 463-71-8, Thiophosgene 503-38-8, Trichloromethyl chloroformate 541-41-3, Ethyl chloroformate

RL: RCT (Reactant); RACT (Reactant or reagent)

(cyclization by, of benzhydrazide derivative)

IT 107510-93-0P 107511-09-1P 107511-52-4P 116370-09-3P 116370-10-6P  
 116370-11-7P 116370-12-8P 116388-94-4P 116388-95-5P 116388-96-6P  
 116388-97-7P 116388-98-8P 116388-99-9P 116389-00-5P 116389-01-6P  
 116389-02-7P 116389-03-8P 116389-04-9P 116389-05-0P  
 116389-06-1P 116389-07-2P 116389-08-3P 116389-09-4P 116389-10-7P  
 116389-11-8P 116389-12-9P 116389-13-0P 116389-14-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and cyclization of)

IT 116370-10-6P 116370-13-9P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and cyclization of, with Et chloroformate)

IT 107511-52-4P 116370-12-8P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and cyclization of, with phosgene)

IT 116370-13-9P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and cyclization of, with thiophosgene)

IT 116370-09-3P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and cyclization of, with trichloromethyl chloroformate)

IT 107511-03-5P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and methylation of)

IT 116370-14-0P  
 RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

IT 116369-81-4P 116369-82-5P 116369-83-6P 116369-84-7P 116369-85-8P  
 116369-86-9P 116369-87-0P 116369-88-1P 116369-89-2P 116369-90-5P  
 116369-91-6P 116369-92-7P 116369-93-8P 116369-94-9P 116369-95-0P  
 116369-96-1P **116369-97-2P 116369-98-3P** 116369-99-4P  
 116370-00-4P 116370-01-5P 116370-02-6P 116370-03-7P 116370-04-8P  
 116370-05-9P 116370-06-0P 116370-07-1P 116370-08-2P 116370-15-1P  
 116400-41-0P 116400-42-1P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of, as pesticide)

IT 41052-75-9, 2-Chlorophenylhydrazine hydrochloride  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, with chlorofluorobenzoyl chloride)

IT 79455-63-3, 2-Chloro-6-fluorobenzoyl chloride  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, with chlorophenylhydrazine)

IT 365-34-4, o-Trifluoromethylphenylhydrazine  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, with difluorobenzoyl chloride)

IT 3107-34-4  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, with difluorobenzoyl fluoride)

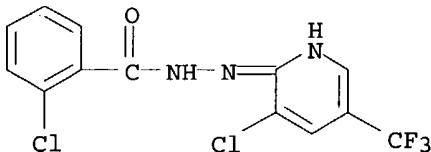
IT 18063-02-0, 2,6-Difluorobenzoyl chloride  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, with trifluoromethylphenylhydrazine)

IT 13656-41-2, 2,6-Difluorobenzoyl fluoride  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, with trifluorotolylhydrazine)

IT **116389-04-9P**  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclization of)

RN 116389-04-9 HCPLUS

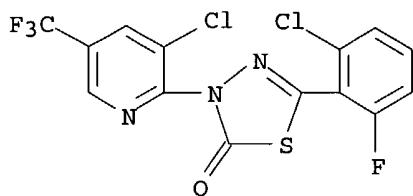
CN Benzoic acid, 2-chloro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



IT **116369-97-2P 116369-98-3P**  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of, as pesticide)

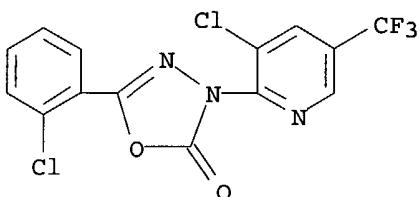
RN 116369-97-2 HCPLUS

CN 1,3,4-Thiadiazol-2(3H)-one, 5-(2-chloro-6-fluorophenyl)-3-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]- (9CI) (CA INDEX NAME)



RN 116369-98-3 HCPLUS

CN 1,3,4-Oxadiazol-2(3H)-one, 5-(2-chlorophenyl)-3-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]- (9CI) (CA INDEX NAME)



=&gt; d all fhitstr tot 188

L88 ANSWER 1 OF 2 HCPLUS COPYRIGHT 2004 ACS on STN

AN 2001:137193 HCPLUS

DN 134:178467

ED Entered STN: 25 Feb 2001

TI Preparation of pyridine derivatives as phytopathogenic fungicides

IN Cooke, Tracey; Hardy, David; Moloney, Brian

Anthony; O'Mahony, Mary Josephine; Pettett, Michael

George; Patel, Gita; Schnatterer, Stefan

PA Aventis CropScience GmbH, Germany

SO PCT Int. Appl., 57 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C07D213-61

ICS C07D213-89; C07D405-12; C07D213-77; C07D401-12; C07D213-81;  
C07D213-64; C07D409-12; C07D417-12; C07D498-04; C07D401-06;  
A01N043-40

CC 27-16 (Heterocyclic Compounds (One Hetero Atom))

Section cross-reference(s): 5

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001012604	A1	20010222	WO 2000-EP8268	20000811 <--
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BR	2000013369	A	20020507	BR 2000-13369	20000811 <--
EP	1204642	A1	20020515	EP 2000-954651	20000811 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, MC, IE, SI,				

LT, LV, FI, RO, MK, CY, AL

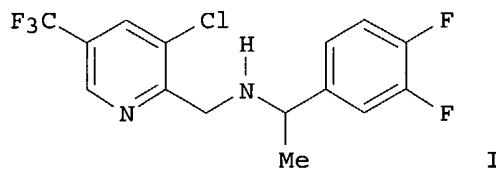
JP 2003507368	T2	20030225	JP 2001-517502	20000811 <--
PRAI GB 1999-19558	A	19990818	<--	
WO 2000-EP8268	W	20000811	<--	

## CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
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WO 2001012604	ICM	C07D213-61
	ICS	C07D213-89; C07D405-12; C07D213-77; C07D401-12; C07D213-81; C07D213-64; C07D409-12; C07D417-12; C07D498-04; C07D401-06; A01N043-40

OS MARPAT 134:178467  
GI



AB The title compds. A1LA2 [A1 = (un)substituted 2-pyridyl or its N-oxide; Ar2 = (un)substituted heterocyclyl, carbocyclyl; L = a 3-atom linker selected from CHR1NR3CHR2, NR3NR4C:X, C:XNR3CHR1, etc. (wherein A1 is attached to the left hand side of linker L); R1, R2 = CN, NO<sub>2</sub>, halo, etc.; R3, R4 = CN, NO<sub>2</sub>, alkyl, etc.; any of R1-R4, together with the interconnecting atoms, can form a 5-6 membered ring with any other R1-R4, or any R1-R4, together with the interconnecting atoms can form a 5-6 membered ring with A2; X = O, S, N(alkyl), etc.], useful as phytopathogenic fungicides, were prepared Thus, reacting 1-(3,4-difluorophenyl)-1-ethanamine with 3-chloro-5-(trifluoromethyl)pyridine-2-carboxaldehyde in the presence of Et<sub>3</sub>N in CH(OMe)<sub>3</sub> followed by addition of NaBH<sub>3</sub>CN/THF and AcOH afforded the title compound I which showed moderate to total control against **Leptosphaeria nodorum** at 500 ppm or less.

ST pyridine prepn agrochem fungicide

IT Fungicides

(agrochem.; preparation of pyridine derivs. as phytopathogenic fungicides)

IT 326807-13-0P 326808-86-0P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of pyridine derivs. as phytopathogenic fungicides)

IT 116389-04-9P 326476-24-8P 326807-14-1P

326807-15-2P 326807-16-3P 326807-17-4P

326807-18-5P 326807-19-6P 326807-20-9P

326807-21-0P 326807-22-1P 326807-23-2P

326807-24-3P 326807-25-4P 326807-26-5P

326807-27-6P 326807-28-7P 326807-29-8P

326807-30-1P 326807-31-2P 326807-32-3P

326807-33-4P 326807-34-5P 326807-35-6P

326807-36-7P 326807-37-8P 326807-38-9P

326807-39-0P 326807-40-3P 326807-41-4P

326807-42-5P 326807-43-6P 326807-44-7P

326807-45-8P 326807-46-9P 326807-47-0P

326807-48-1P 326807-49-2P 326807-50-5P

326807-51-6P 326807-52-7P 326807-53-8P

326807-54-9P 326807-55-0P 326807-56-1P

326807-57-2P 326807-58-3P 326807-59-4P

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 326807-69-6P 326807-70-9P 326807-71-0P  
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 326807-75-4P 326807-76-5P 326807-77-6P  
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**326812-96-8P**

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of pyridine derivs. as phytopathogenic fungicides)

IT 86-55-5, 1-Naphthoic acid 89-98-5, 2-Chlorobenzaldehyde 118-91-2,  
 2-Chlorobenzoic acid 608-31-1, 2,6-Dichloroaniline 614-21-1,  
 2-Nitroacetophenone 1777-82-8, 2,4-Dichlorobenzyl alcohol 3034-19-3,  
 2-Nitrophenylhydrazine 3886-69-9 4659-45-4, 2,6-Dichlorobenzoyl  
 chloride 69045-84-7, 2,3-Dichloro-5-trifluoromethylpyridine  
 70591-20-7, [(Diphenylmethylene)amino]methyl cyanide 75408-89-8,  
 4-Acetyl biphenyl oxime 79456-26-1, 2-Amino-3-chloro-5-  
 trifluoromethylpyridine 89570-82-1 118386-83-7 175277-50-6,  
 3-Chloro-5-trifluoromethylpyridine-2-carboxaldehyde 175277-52-8,  
 3-Chloro-2-(chloromethyl)-5-trifluoromethylpyridine 276875-21-9,  
 1-(3,4-Difluorophenyl)-1-ethanamine 326809-08-9 326809-09-0

326809-10-3, 2-(3-Bromo-4-methoxyphenyl)-1H-imidazole

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of pyridine derivs. as phytopathogenic fungicides)

RE.CNT 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Agrevo Uk Ltd; GB 2307177 A 1997 HCPLUS
- (2) Agrevo Uk Ltd; WO 9907687 A 1999 HCPLUS
- (3) Anon; PATENT ABSTRACTS OF JAPAN 1983, V007(114), PC-166
- (4) Anon; PATENT ABSTRACTS OF JAPAN 1989, V013(379), PC-628
- (5) Anon; PATENT ABSTRACTS OF JAPAN 1990, V014(310), PC-0736
- (6) Anon; PATENT ABSTRACTS OF JAPAN 1992, V016(148), PC-0928
- (7) Anon; PATENT ABSTRACTS OF JAPAN 1995, V1995(04)
- (8) Basf Ag; EP 0350691 A 1990 HCPLUS
- (9) Basf Ag; WO 9710215 A 1997 HCPLUS
- (10) Bayer Ag; EP 0573883 A 1993 HCPLUS
- (11) Briggs, G; WO 9850352 A 1998 HCPLUS
- (12) Ciba Geigy Ag; EP 0288976 A 1988 HCPLUS
- (13) Ciba Geigy Ag; EP 0577555 A 1994 HCPLUS
- (14) Dow Chemical Co; GB 2068365 A 1981 HCPLUS
- (15) Dow Chemical Co; EP 0287691 A 1988 HCPLUS
- (16) Hamprecht, G; WO 9842671 A 1998 HCPLUS
- (17) Ihara Chemical Ind Co; EP 0648752 A 1995 HCPLUS
- (18) Ishihara Sangyo Kaisha Ltd; JP 02104575 A 1990 HCPLUS
- (19) Ishihara Sangyo Kaisha Ltd; JP 07025853 A 1995 HCPLUS
- (20) Ishihara Sangyo Kk; JP 58035174 A 1983 HCPLUS
- (21) Kyowa Hakko Kogyo Kk; EP 0882717 A 1998 HCPLUS
- (22) La Roche, H; EP 0270061 A 1988 HCPLUS
- (23) Minn; HCPLUS
- (24) Minn; SYNLETT 1991, 2, P115 HCPLUS
- (25) Mitsubishi Petrochem Co Ltd; JP 04005282 A 1992 HCPLUS
- (26) Mitsui Petrochem Ind Ltd; JP 01131146 A 1989 HCPLUS
- (27) Moloney Brian Anthony; WO 9942447 A 1999 HCPLUS
- (28) Sumitomo Chemical Co; EP 0469711 A 1992 HCPLUS
- (29) Sumitomo Chemical Co; EP 0648729 A 1995 HCPLUS
- (30) Uniroyal Chem Co Inc; WO 9207848 A 1992 HCPLUS

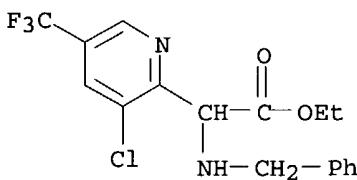
IT 326807-13-0P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of pyridine derivs. as phytopathogenic fungicides)

RN 326807-13-0 HCPLUS

CN 2-Pyridineacetic acid, 3-chloro- $\alpha$ -[(phenylmethyl)amino]-5-(trifluoromethyl)-, ethyl ester (9CI) (CA INDEX NAME)



L88 ANSWER 2 OF 2 HCPLUS COPYRIGHT 2004 ACS on STN

AN 2001:136944 HCPLUS

DN 134:174247

ED Entered STN: 25 Feb 2001

TI Preparation of fungicidal nitrogen compounds

IN Cooke, Tracey; Ekwuru, Tennyson; Hardy, David;

Millward, Peter; Moloney, Brian; Pettinger, Andrew; Thomas,  
 Peter Stanley; Turner, Richard Michael  
 PA Aventis CropScience GmbH, Germany  
 SO PCT Int. Appl., 42 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 IC ICM A01N043-40  
 ICS A01N043-82; A01N043-80; A01N043-54; A01N043-56; A01N043-90;  
 A01N043-50; A01N043-78; A01N043-42; A01N043-60; A01N053-00;  
 A01N047-38; A01N047-40; A01N047-24  
 CC 5-2 (Agrochemical Bioregulators)  
 Section cross-reference(s): 27

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001011966	A1	20010222	WO 2000-EP8269	20000811 <--
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	EP 1204322	A1	20020515	EP 2000-956481	20000811 <--
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	US 6630495	B1	20031007	US 2002-49981	20020722 <--
PRAI	GB 1999-19588	A	19990818	<--	
	WO 2000-EP8269	W	20000811	<--	

CLASS

	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
	WO 2001011966	ICM	A01N043-40
		ICS	A01N043-82; A01N043-80; A01N043-54; A01N043-56; A01N043-90; A01N043-50; A01N043-78; A01N043-42; A01N043-60; A01N053-00; A01N047-38; A01N047-40; A01N047-24
	US 6630495	ECLA	A01N043/40; A01N043/42; A01N043/50; A01N043/54; A01N043/56; A01N043/60; A01N043/78; A01N043/80; A01N043/90; A01N047/24; A01N047/38; A01N047/40; A01N053/00

OS MARPAT 134:174247  
 AB The fungicidal nitrogen compds. A1CR1R2NR3LA2 and A1CR1R2N:CYA2  
 [A1 = (un)unsubstituted 2-pyridyl or its N-oxide; A2 = (un)substituted  
 heterocyclyl or carbocyclyl; R1, R2 = alkyl, alkenyl, cyano, nitro, halo,  
 etc.; L = CO, CS, SO<sub>2</sub>, etc., Y = halo, alkoxy, alkylthio, etc.] are prepared  
 ST fungicide nitrogen compd prepns  
 IT 6635-41-2P, 2-Nitrobenzaldoxime 35447-75-7P 326476-24-8P  
 326476-25-9P 326476-26-0P 326476-48-6P 326476-84-0P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (intermediate in preparation of amide fungicide)  
 IT 164341-60-0P 326475-66-5P 326475-67-6P  
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 326475-71-2P 326475-72-3P 326475-73-4P  
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**326491-87-6P**

RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL  
 (Biological study); PREP (Preparation); USES (Uses)  
 (preparation as fungicide)

IT 106-95-6, Allyl bromide, reactions 552-89-6, 2-Nitrobenzaldehyde  
 5470-11-1, Hydroxylamine hydrochloride 16024-82-1 39920-37-1,  
 2,6-Dichlorophenyl isocyanate 68182-81-0 69045-84-7,  
 2,3-Dichloro-5-trifluoromethylpyridine 70591-20-7,  
 (Diphenyl)methyleneaminoacetonitrile 154142-60-6 175277-74-4  
**239112-70-0** 326476-49-7 326477-10-5

RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reactant in preparation of amide fungicide)

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD

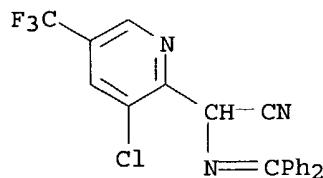
RE

- (1) Agrevo Uk Ltd; WO 9907687 A 1999 HCPLUS
- (2) Ash, M; US 4423222 A 1983 HCPLUS
- (3) Bayer Ag; EP 0334138 A 1989 HCPLUS
- (4) Bayer Ag; WO 9708135 A 1997 HCPLUS
- (5) Dainippon; JP 08-208615 A 1996 HCPLUS
- (6) Mitsubishi; JP 07-173139 A 1995 HCPLUS
- (7) Mitsubishi Chem Corp; EP 0726266 A 1996 HCPLUS
- (8) Mitsubishi Chem Ind; EP 0329020 A 1989 HCPLUS
- (9) Moloney, B; WO 9942447 A 1999 HCPLUS
- (10) Takeda Chemical Industries Ltd; EP 0404190 A 1990 HCPLUS
- (11) Tokuyama, S; JP 64-003162 A 1989 HCPLUS
- (12) Torba, F; US 3609158 A 1971 HCPLUS

IT 326476-24-8P  
 RL: AGR (Agricultural use); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)  
 (intermediate in preparation of amide fungicide)

RN 326476-24-8 HCAPLUS  
 CN 2-Pyridineacetonitrile, 3-chloro- $\alpha$ -[(diphenylmethylene)amino]-5-(trifluoromethyl)- (9CI) (CA INDEX NAME)



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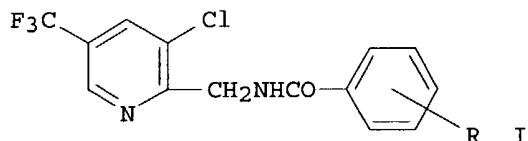
L90 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1999:549257 HCAPLUS  
 DN 131:170272  
 ED Entered STN: 31 Aug 1999  
 TI 2-Pyridylmethylamine derivatives useful as fungicides  
 IN Moloney, Brian Anthony; Hardy, David; Saville-Stones,  
 Elizabeth Anne  
 PA Agrevo UK Limited, UK  
 SO PCT Int. Appl., 39 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 IC ICM C07D213-61  
 ICS C07D213-26; C07D401-12; C07D213-85; C07D213-65; A01N043-40  
 CC 27-16 (Heterocyclic Compounds (One Hetero Atom))  
 Section cross-reference(s): 5

FAN.CNT 1	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9942447		A1	19990826	WO 1999-GB304	19990216 <--
W: AU, BR, CA, CN, CZ, HU, ID, IL, IN, JP, KR, KZ, MX, NO, NZ, PL, RO, RU, SI, SK, TR, UA, US, YU, ZW					
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE					
TW 575562	B	20040211		TW 1999-88101970	19990209 <--
CA 2319005	AA	19990826		CA 1999-2319005	19990216 <--
AU 9925271	A1	19990906		AU 1999-25271	19990216 <--
AU 751032	B2	20020808			
TR 200002395	T2	20001121		TR 2000-200002395	19990216 <--
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BR 9908007	A	20010130		BR 1999-8007	19990216 <--
SI 20356	C	20010430		SI 1999-20016	19990216 <--
JP 2002503723	T2	20020205		JP 2000-532399	19990216 <--
TR 200101071	T2	20020621		TR 2001-200101071	19990216 <--
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CN 1132816	B	20031231		CN 1999-803058	19990216 <--
RU 2224746	C2	20040227		RU 2000-124062	19990216 <--
ZA 9901292	A	19990913		ZA 1999-1292	19990218 <--
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US 6503933	B1	20030107		US 2000-622651	20000921 <--
US 2003171410	A1	20030911		US 2002-303464	20021125 <--
PRAI GB 1998-3413	A	19980219	<--		
GB 1998-13998	A	19980630	<--		

GB 1998-17353 A 19980811 <--  
 GB 1998-3414 A 19980219 <--  
 WO 1999-GB304 W 19990216 <--  
 US 2000-622651 A3 20000921

## CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 9942447	ICM	C07D213-61
	ICS	C07D213-26; C07D401-12; C07D213-85; C07D213-65; A01N043-40
US 6503933	ECLA	A01N043/40; C07D213/26; C07D213/61; C07D213/65; C07D213/85; C07D401/12 <--
US 2003171410	ECLA	A01N043/40; C07D213/26; C07D213/61; C07D213/65; C07D213/85; C07D401/12 <--
OS MARPAT 131:170272		
GI		



AB Title compds. such as I (R = 2-CF<sub>3</sub>, 3-Br, 4-Cl) were prepared as agricultural **fungicides**. Thus, 0.35 g [3-chloro-5-(trifluoromethyl)-2-pyridyl]methylamine and 0.39 g 2-(trifluoromethyl)benzoyl chloride reacted in dry ether in the presence of 0.27 mL Et<sub>3</sub>N to give I (R = 2-CF<sub>3</sub>). The products were tested at 500 ppm (w/v) against late blight, vine downy mildew, wheat powdery mildew, rice blast, glume blotch, and gray mold.

ST pyridylmethylamine deriv prepn **fungicidal** activity

IT **Fungicides**  
(agrochem.; 2-pyridylmethylamine derivs.)

IT 239109-95-6P 239109-96-7P 239109-97-8P  
 239109-98-9P 239109-99-0P 239110-00-0P  
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RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(fungicidal 2-pyridylmethylamine derivs.)

IT

239112-33-5P	239112-34-6P	239112-35-7P	239112-36-8P	239112-37-9P
239112-38-0P	239112-39-1P	239112-40-4P	239112-41-5P	239112-42-6P
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 239113-11-2P 239113-12-3P 239113-13-4P  
 239113-14-5P 239113-15-6P 239113-16-7P  
 239113-17-8P 239113-18-9P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(fungicidal 2-pyridylmethylamine derivs.)

IT 312-94-7 1013-88-3, Benzophenone imine 3535-37-3, Benzoyl chloride, 3,4-dimethoxy- 4659-45-4 16063-70-0 16271-33-3 69555-14-2, Ethyl N-(diphenylmethylene)glycinate 175277-74-4 239113-20-3 239113-24-7

RL: RCT (Reactant); RACT (Reactant or reagent)

(fungicidal 2-pyridylmethylamine derivs.)

IT 239113-19-0P 239113-21-4P 239113-22-5P

**239113-23-6P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(fungicidal 2-pyridylmethylamine derivs.)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Bayer AG; DE 2417763 A 1975 HCPLUS
- (2) Fujisawa Pharmaceutical Co; EP 0356234 A 1990 HCPLUS
- (3) Hoechst Schering Agrevo GMBH; DE 4434637 A 1996 HCPLUS
- (4) Shell Agrar GMBH & Co KG; EP 0262393 A 1988 HCPLUS

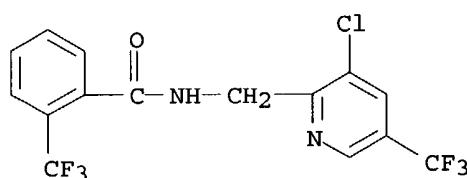
IT **239109-95-6P**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(fungicidal 2-pyridylmethylamine derivs.)

RN 239109-95-6 HCPLUS

CN Benzamide, N-[(3-chloro-5-(trifluoromethyl)-2-pyridinyl)methyl]-2-(trifluoromethyl)- (9CI) (CA INDEX NAME)



=> => d all hitstr

L91 ANSWER 2 OF 27 HCPLUS COPYRIGHT 2004 ACS on STN

AN 2001:423412 HCPLUS

DN 135:30294

ED Entered STN: 12 Jun 2001

TI Synergistic insecticidal compositions containing oxadiazoline derivatives, insect control, and enhancement of insecticidal action of the derivatives

IN Akayama, Atsuo

PA Takeda Chemical Industries, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 67 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM C07D413-04  
 ICS A01N043-836; C07D413-14  
 CC 5-4 (Agrochemical Bioregulators)  
 Section cross-reference(s): 28

## FAN.CNT 1

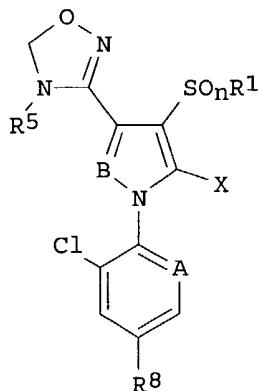
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001158785	A2	20010612	JP 1999-340604	19991130 <--
PRAI	JP 1999-340604		19991130 <--		

## CLASS

	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
	JP 2001158785	ICM	C07D413-04
		ICS	A01N043-836; C07D413-14

OS MARPAT 135:30294

GI



AB Insecticidal compns. contain the derivs. I [R1 = C1-6 alkyl, C1-6 haloalkyl; n = 0, 1, 2; X = NR2R3 (R2, R3 = H, C1-6 alkyl which may be substituted with pyridyl), N:CHOR4 (R4 = C1-6 alkyl), N:CHNR6R7 (R6, R7 = H, C1-6 alkyl), N:CHAR (Ar = Ph which may be substituted with OH or C1-3 alkoxy), pyrrolyl; R5 = (un)substituted alkyl, (un)substituted acyl; R8 = halo, C1-6 haloalkyl, C1-6 haloalkoxy, Ph which may be substituted with C1-6 haloalkyl; A = N, CR9 (R9 = Cl, cyano); B = N, CH] or their salts and other agrochem. components such as insecticidal clothianidin, nitenpyram, cartap hydrochloride, bensultap, pyraclofos, etc. Insects are controlled by combined use of I or their salts with the other agrochem. components. Insecticidal activity of I or their salts is enhanced by combined use with the other agrochem. components. I (n = 1, R1 = R8 = CF3, R5 = CONMe2, A = CCl, B = N, X = N:CHOCHMe2) (preparation given) and clothianidin showed synergistic action against *Plutella maculipennis* larvae in pot culture of cabbage. Agrochem. formulations containing I were also given.

ST oxadiazoline deriv synergistic insecticide; clothianidin oxadiazoline deriv synergistic insecticide

## IT Fungicides

(agrochem.; preparation of insecticidal oxadiazoline derivs. and synergistic agrochem. insecticides containing them)

## IT Insecticides

(preparation of insecticidal oxadiazoline derivs. and synergistic agrochem. insecticides containing them)

## IT Insecticides

(synergistic; preparation of insecticidal oxadiazoline derivs. and synergistic agrochem. insecticides containing them)

IT 15263-52-2, Cartap hydrochloride 17606-31-4, Bensultap 89784-60-1,  
 Pyraclofos 150824-47-8, Nitenpyram 210880-92-5, Clothianidin  
 230643-18-2 230643-57-9 230643-58-0 230643-59-1 230643-60-4  
 230643-61-5 230643-62-6 230643-63-7 230643-64-8 230643-65-9  
 230643-66-0 230643-67-1 230643-68-2 230643-69-3 230643-70-6  
 230643-71-7 230643-73-9 230643-74-0 230643-75-1 230643-76-2  
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RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(preparation of insecticidal oxadiazoline derivs. and synergistic agrochem. insecticides containing them)

IT 230643-10-4P 230643-11-5P 230643-12-6P 230643-13-7P 230643-14-8P  
 230643-15-9P 230643-16-0P 230643-17-1P 230643-19-3P 230643-21-7P  
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 230644-49-2P 251563-81-2P 251563-82-3P 251563-83-4P 251563-84-5P  
 251563-85-6P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of insecticidal oxadiazoline derivs. and synergistic agrochem. insecticides containing them)

IT 109-89-7, Diethylamine, reactions 121-33-5, Vanillin 122-51-0,  
 Triethyl orthoformate 123-62-6, Propionic acid anhydride 624-83-9,  
 Methyl isocyanate 696-59-3, 2,5-Dimethoxy tetrahydrofuran 2491-06-7,  
 N,N-Dimethylglycine hydrochloride 3282-30-2, Pivaloyl chloride  
 4447-60-3, Triisopropyl orthoformate 4637-24-5 24424-99-5,  
 Di-tert-butyl dicarbonate 194942-26-2 194942-27-3 194942-29-5  
 194942-30-8 194942-31-9 230643-32-0 251564-09-7  
 RL: RCT (Reactant); RACT (Reactant or reagent)

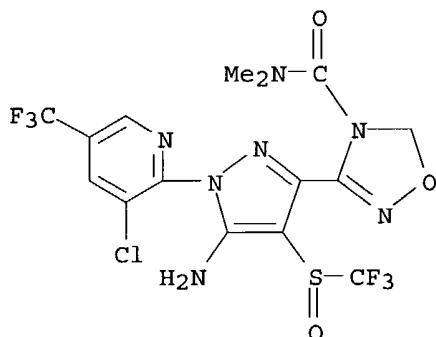
(preparation of insecticidal oxadiazoline derivs. and synergistic agrochem. insecticides containing them)

IT 251564-06-4 251564-08-6  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)  
 (preparation of insecticidal oxadiazoline derivs. and synergistic agrochem.

insecticides containing them)

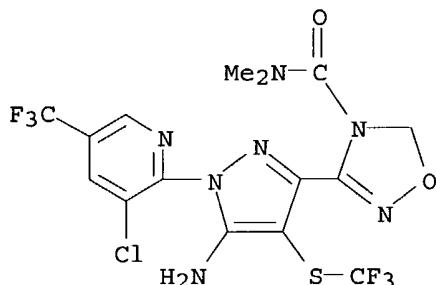
RN 251564-06-4 HCPLUS

CN 1,2,4-Oxadiazole-4(5H)-carboxamide, 3-[5-amino-1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-4-[(trifluoromethyl)sulfinyl]-1H-pyrazol-3-yl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 251564-08-6 HCPLUS

CN 1,2,4-Oxadiazole-4(5H)-carboxamide, 3-[5-amino-1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-4-[(trifluoromethyl)thio]-1H-pyrazol-3-yl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



L91 ANSWER 3 OF 27 HCPLUS COPYRIGHT 2004 ACS on STN

AN 2000:658097 HCPLUS

DN 133:222600

ED Entered STN: 20 Sep 2000

TI Preparation of cyanomethylene hydrazine derivatives as acaricide, insecticides, and fungicides

IN Abe, Masaki; Gotouda, Satoshi; Murakami, Mitsuyuki; Nakagawa, Hirofumi; Wakisaka, Seiichi; Sasama, Yasuhiro

PA Ohtsuka Chemical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 24 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

IC ICM C07D213-57

ICS A01N043-40; C07D213-61; C07D213-69; C07D213-70; C07D213-71; C07D213-79; C07D213-85

CC 27-16 (Heterocyclic Compounds (One Hetero Atom))

Section cross-reference(s): 5

FAN.CNT 1

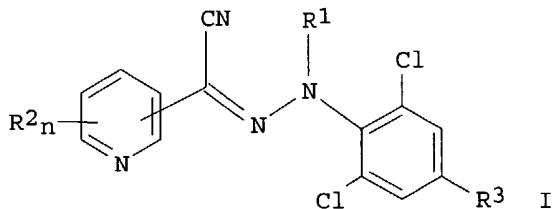
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2000256322	A2	20000919	JP 1999-64654	19990311 <--
PRAI	JP 1999-64654		19990311 <--		

## CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2000256322	ICM	C07D213-57
	ICS	A01N043-40; C07D213-61; C07D213-69; C07D213-70; C07D213-71; C07D213-79; C07D213-85

OS MARPAT 133:222600

GI



AB Title compds. I (R1 = H, alkyl; R2 = halo, alkyl, haloalkyl; R3 = haloalkyl, NO<sub>2</sub>, etc.; n = 0, 1, 2), useful as acaricides, insecticides, and fungicides, are prepared Thus, refluxing 6-cyanonicotinoyl cyanide 2,6-dichloro-4-trifluoromethylphenylhydrazone with MeI in MeCN for 14 h gave 6-cyanonicotinoyl cyanide N-(2,6-dichloro-4-trifluoromethylphenyl)-N-methylhydrazone (II). II showed acaricidal, insecticidal, and fungicidal activities.

ST cyanomethylene hydrazine prepn acaricide insecticide fungicide

IT Acaricides

**Fungicides**

**Insecticides**

(preparation of cyanomethylenehydrazine derivs. as acaricides, insecticides, and fungicides)

IT 292044-17-8P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of cyanomethylenehydrazine derivs. as acaricides, insecticides, and fungicides)

IT 292044-00-9P 292044-01-0P 292044-02-1P 292044-03-2P

292044-04-3P 292044-05-4P 292044-06-5P 292044-07-6P 292044-08-7P

292044-09-8P 292044-10-1P 292044-11-2P 292044-12-3P 292044-13-4P

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292044-71-4P 292044-72-5P 292044-73-6P 292044-74-7P 292044-75-8P

292044-76-9P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of cyanomethylenehydrazine derivs. as acaricides, insecticides, and fungicides)

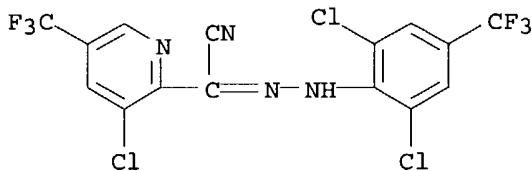
IT 70165-31-0, 6-Cyanonicotinic acid 86398-94-9, 2,6-Dichloro-4-trifluoromethylphenylhydrazine  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (preparation of cyanomethylenehydrazine derivs. as acaricides, insecticides, and **fungicides**)

IT 500-22-1P, Nicotinaldehyde 292044-77-0P 292044-78-1P 292044-79-2P  
 292044-80-5P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation of cyanomethylenehydrazine derivs. as acaricides, insecticides, and **fungicides**)

IT 292044-01-0P  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of cyanomethylenehydrazine derivs. as acaricides, insecticides, and **fungicides**)

RN 292044-01-0 HCPLUS

CN 2-Pyridineacetonitrile, 3-chloro- $\alpha$ -[[2,6-dichloro-4-(trifluoromethyl)phenyl]hydrazone]-5-(trifluoromethyl)- (9CI) (CA INDEX NAME)



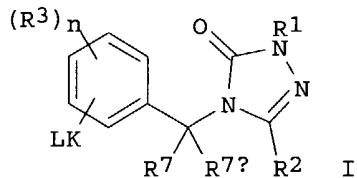
L91 ANSWER 5 OF 27 HCPLUS COPYRIGHT 2004 ACS on STN  
 AN 1999:126884 HCPLUS  
 DN 130:168382  
 ED Entered STN: 26 Feb 1999  
 TI Preparation of pesticidal 4-benzyl-1,2,4-triazolin-5-ones.  
 IN West, Peter John; Carver, David Stephen; Cooper, Ian Paul; Gates, Peter Stuart; Simpson, Donald James; Turner, Richard Michael  
 PA Agrevo UK Limited, UK  
 SO PCT Int. Appl., 43 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 IC ICM C07D249-12  
 ICS C07D249-14; C07D409-10; C07D417-12; C07D401-12; C07D403-12;  
 C07D405-10; C07D417-10; C07D413-10; C07D471-04; C07F007-10;  
 A01N043-653; A01N055-10  
 CC 28-10 (Heterocyclic Compounds (More Than One Hetero Atom))  
 Section cross-reference(s): 5

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 9907687	A1	19990218	WO 1998-GB2238	19980805 <--
W: AU, BR, CA, CN, HU, IL, JP, KR, MX, PL, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,				
PT, SE				
AU 9886352	A1	19990301	AU 1998-86352	19980805 <--
PRAI GB 1997-16446		19970805	<--	
WO 1998-GB2238		19980805	<--	
CLASS				
PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES		

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 WO 9907687 ICM C07D249-12  
 ICS C07D249-14; C07D409-10; C07D417-12; C07D401-12;  
 C07D403-12; C07D405-10; C07D417-10; C07D413-10;  
 C07D471-04; C07F007-10; A01N043-653; A01N055-10

OS MARPAT 130:168382  
 GI



AB Title compds. [I; R1 = (substituted) alkyl; R2 = (substituted) alkyl, halo, OR4, SR4, SOR4, SO2R4, NR5R6; n = 0-4; R3 = (substituted) alkyl, halo; R7, R7a = (substituted) alkyl, acyl, halo, cyano; K = O, S, SO, SO2, CO, NR8, CONR8, bond, etc.; L = (substituted) alkyl, alkenyl, alkynyl, heterocyclyl, carbocyclyl, Si(R15)3; or 1 of R3, K, or L form a (substituted) fused ring with the benzene ring; R4 = H, (substituted) alkyl; R5, R6 = H, (substituted) alkyl; NR5R6 = (substituted) heterocyclyl; R8 = H, (substituted) alkyl, carbocyclyl, heterocyclyl; R15 = alkyl], having fungicidal, insecticidal, and acaricidal activity, were prepared. Thus, 4-(3-bromobenzyl)-3-methoxy-4,5-dihydro-1H-1,2,4-triazol-5-one, trimethylsilylacetylene, Pd(OAc)2, and PPh3 were refluxed 3 h in Et3N and PhMe to give 3-methoxy-1-methyl-4-[4-[2-(trimethylsilyl)ethynyl]benzyl]-4,5-dihydro-1H-1,2,4-triazol-4-one. The latter gave moderate or better control of Plasmopara viticola and Leptosphaeria nodorum.

ST benzyltriazolinone prepn pesticide; triazolinone benzyl prepn pesticide; fungicide agrochem benzyltriazolinone

IT Fungicides

(agrochem.; preparation of pesticidal 4-benzyl-1,2,4-triazolin-5-ones)

IT Pesticides

(preparation of pesticidal 4-benzyl-1,2,4-triazolin-5-ones)

IT 220464-31-3P 220464-33-5P 220464-34-6P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of pesticidal 4-benzyl-1,2,4-triazolin-5-ones)

IT 220463-47-8P 220463-48-9P 220463-49-0P 220463-50-3P 220463-51-4P

220463-52-5P 220463-53-6P 220463-54-7P 220463-55-8P 220463-56-9P

220463-57-0P 220463-58-1P 220463-59-2P 220463-60-5P 220463-61-6P

220463-62-7P 220463-63-8P 220463-64-9P 220463-65-0P 220463-66-1P

220463-67-2P 220463-68-3P 220463-69-4P 220463-70-7P 220463-71-8P

220463-72-9P 220463-73-0P 220463-74-1P 220463-75-2P 220463-76-3P

220463-77-4P 220463-78-5P 220463-79-6P 220463-80-9P 220463-81-0P

220463-82-1P 220463-83-2P 220463-84-3P 220463-85-4P 220463-86-5P

220463-87-6P 220463-88-7P 220463-89-8P 220463-90-1P 220463-91-2P

220463-92-3P 220463-93-4P 220463-94-5P 220463-95-6P 220463-96-7P

220463-97-8P 220463-98-9P 220463-99-0P 220464-00-6P 220464-01-7P

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220464-07-3P 220464-08-4P 220464-09-5P 220464-10-8P 220464-11-9P

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220464-27-7P 220464-28-8P 220464-29-9P 220464-30-2P 220464-32-4P  
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 220464-55-1P 220464-56-2P 220464-57-3P 220464-58-4P 220464-59-5P  
 220464-60-8P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of pesticidal 4-benzyl-1,2,4-triazolin-5-ones)

IT 349-76-8 1066-54-2, Trimethylsilylacetylene 5122-94-1,  
 4-Phenylbenzeneboronic acid 53065-41-1 220464-65-3 220464-66-4  
 220464-67-5 220464-68-6, Methyl 3-bromomethyl-4-chlorobenzoate

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of pesticidal 4-benzyl-1,2,4-triazolin-5-ones)

IT 220464-61-9P 220464-62-0P 220464-63-1P 220464-64-2P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of pesticidal 4-benzyl-1,2,4-triazolin-5-ones)

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Ciba-Geigy AG; EP 0475898 A 1992 HCPLUS
- (2) EI Du Pont De Nemours and Company; WO 9626191 A 1996 HCPLUS
- (3) EI Du Pont De Nemours and Company; WO 9636615 A 1996 HCPLUS
- (4) EI Du Pont De Nemours and Company; WO 9636616 A 1996 HCPLUS
- (5) GD Searle & Co; WO 9118888 A 1991 HCPLUS
- (6) Merck & Co Inc; EP 0412594 A 1991 HCPLUS
- (7) Merck & Co, Inc; WO 9112001 A 1991 HCPLUS
- (8) Merck & Co, Inc; WO 9220662 A 1992 HCPLUS

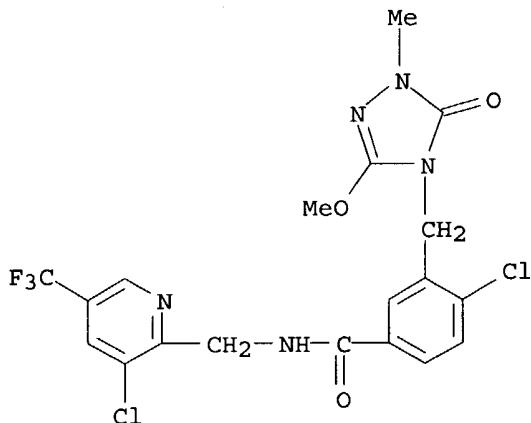
IT 220464-23-3P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of pesticidal 4-benzyl-1,2,4-triazolin-5-ones)

RN 220464-23-3 HCPLUS

CN Benzamide, 4-chloro-N-[(3-chloro-5-(trifluoromethyl)-2-pyridinyl)methyl]-3-[(1,5-dihydro-3-methoxy-1-methyl-5-oxo-4H-1,2,4-triazol-4-yl)methyl]- (9CI) (CA INDEX NAME)



L91 ANSWER 8 OF 27 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1998:682223 HCAPLUS  
 DN 129:275705  
 ED Entered STN: 28 Oct 1998  
 TI Preparation of aromatic oxime ethers as insecticides, acaricides, and agrochemical fungicides.  
 IN Hirose, Taro; Kimura, Norio  
 PA Sumitomo Chemical Co., Ltd., Japan  
 SO PCT Int. Appl., 164 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 IC ICM C07C251-48  
 ICS A01N035-10; A01N039-04; A01N043-34; C07C251-52; C07C323-53;  
 C07C255-62; C07C259-14; C07C251-54; C07D213-30; C07D261-08;  
 C07D303-12; C07C327-58; C07C255-64; C07C259-06; C07D239-34;  
 C07D317-64; C07C069-712  
 CC 25-22 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)  
 Section cross-reference(s): 5

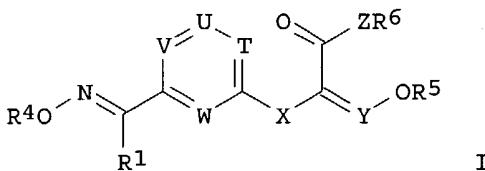
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9843949	A1	19981008	WO 1998-JP1408	19980327 <--
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9865193	A1	19981022	AU 1998-65193	19980327 <--
	EP 975587	A1	20000202	EP 1998-911069	19980327 <--
	R: CH, DE, FR, GB, IT, LI, NL				
	BR 9809746	A	20000620	BR 1998-9746	19980327 <--
	JP 11286472	A2	19991019	JP 1998-83532	19980330 <--
	ZA 9802683	A	19981013	ZA 1998-2683	19980331 <--
PRAI	JP 1997-82900	A	19970401	<--	
	JP 1997-318031	A	19971119	<--	
	JP 1998-26074	A	19980206	<--	
	WO 1998-JP1408	W	19980327	<--	

CLASS

	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
	WO 9843949	ICM	C07C251-48
		ICS	A01N035-10; A01N039-04; A01N043-34; C07C251-52; C07C323-53; C07C255-62; C07C259-14; C07C251-54; C07D213-30; C07D261-08; C07D303-12; C07C327-58; C07C255-64; C07C259-06; C07D239-34; C07D317-64; C07C069-712

OS MARPAT 129:275705  
 GT



AB Title compds. [I; R1 = H, alkyl, cycloalkyl, alkoxyalkyl, haloalkyl, cyano, NO<sub>2</sub>, alkoxy carbonyl; 1 of T, U, V = CR<sub>2</sub>, another = CH, N, the last = CR<sub>3</sub>, N; W = CR<sub>33</sub>, N; R<sub>2</sub>, R<sub>3</sub>, R<sub>33</sub> = H, halo, alkyl, alkoxy, haloalkyl, haloalkoxy, cyano, NO<sub>2</sub>, alkoxy carbonyl, alkylthio, haloalkylthio; R<sub>4</sub> = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, aryl, heterocyclyl; R<sub>5</sub>, R<sub>6</sub> = alkyl; X = NR<sub>7</sub>, O, S; R<sub>7</sub> = (substituted) alkyl; Y = CH, N; Z = O, NH; when Y = CH, then Z = O], were prepared Thus, Me 2-(N-methyl-3-acetyl anilino)-3-methoxyacrylate (preparation given) was stirred with MeONH<sub>2</sub>.HCl in pyridine/MeOH to give Me 2-[N-methyl-3-(1-methoxyiminoethyl)anilino]-3-methoxyacrylate. The latter had preventive activity against rice blast.

ST arom oxime ether prep fungicide; insecticide arom oxime ether prep; acaricide arom oxime ether prep

IT **Fungicides**  
(agrochem.; preparation of aromatic oxime ethers as insecticides, acaricides, and agrochem. fungicides)

IT Acaricides  
Insecticides  
(preparation of aromatic oxime ethers as insecticides, acaricides, and agrochem. fungicides)

IT 213904-37-1P 213904-75-7P 213905-03-4P  
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
(preparation of aromatic oxime ethers as insecticides, acaricides, and agrochem. fungicides)

IT 213904-35-9P 213904-36-0P 213904-38-2P 213904-40-6P 213904-41-7P  
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213905-54-5P 213905-55-6P 213905-56-7P 213905-57-8P 213905-58-9P  
213906-08-2P 213906-09-3P 213906-10-6P  
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of aromatic oxime ethers as insecticides, acaricides, and agrochem. fungicides)

IT 74-89-5, Methylamine, reactions 96-32-2, Methyl bromoacetate 99-61-6, 3-Nitrobenzaldehyde 107-31-3, Methyl formate 121-71-1 149-73-5, Trimethyl orthoformate 407-25-0, Trifluoroacetic anhydride 621-50-1 2365-48-2, Methyl thioglycolate 2687-43-6, O-Benzylhydroxylamine

hydrochloride 3814-19-5 17071-24-8, 3-Amino-4-methylacetophenone  
 30673-27-9 33414-49-2, 3-Hydroxy-4-methylacetophenone 42865-75-8  
 61124-56-9 69045-84-7, 2,3-Dichloro-5-trifluoromethylpyridine  
 73898-20-1 149691-66-7 213906-05-9

RL: RCT (Reactant); RACT (Reactant or reagent)  
 (preparation of aromatic oxime ethers as insecticides, acaricides, and  
 agrochem. fungicides)

IT 6951-35-5P 53663-37-9P 82146-76-7P 213905-59-0P 213905-60-3P  
 213905-61-4P 213905-62-5P 213905-63-6P 213905-64-7P 213905-65-8P  
 213905-66-9P 213905-67-0P 213905-68-1P 213905-69-2P 213905-70-5P  
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 213905-97-6P 213905-98-7P 213905-99-8P 213906-00-4P 213906-01-5P  
 213906-02-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation of aromatic oxime ethers as insecticides, acaricides, and  
 agrochem. fungicides)

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

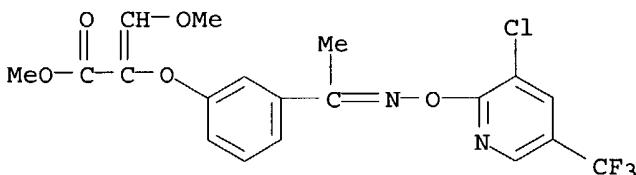
(1) Bayer Ag; EP 0464381 A 1992 HCPLUS  
 (2) Faulkner, J; JOURNAL OF THE CHEMICAL SOCIETY 1962, P4737 HCPLUS

IT 213904-54-2P 213904-86-0P 213904-92-8P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of aromatic oxime ethers as insecticides, acaricides, and agrochem. fungicides)

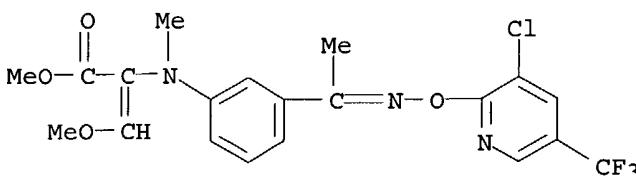
RN 213904-54-2 HCPLUS

CN 2-Propenoic acid, 2-[3-[1-[[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]oxy]imino]ethyl]phenoxy]-3-methoxy-, methyl ester (9CI) (CA INDEX NAME)



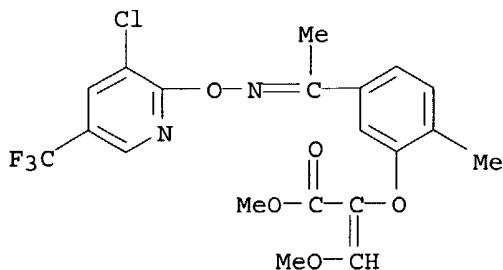
RN 213904-86-0 HCPLUS

CN 2-Propenoic acid, 2-[3-[1-[[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]oxy]imino]ethyl]phenyl]methylamino]-3-methoxy-, methyl ester (9CI) (CA INDEX NAME)



RN 213904-92-8 HCPLUS

CN 2-Propenoic acid, 2-[5-[[1-[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]oxy]imino]ethyl]-2-methylphenoxy]-3-methoxy-, methyl ester (9CI)  
(CA INDEX NAME)



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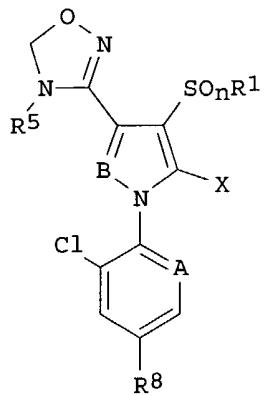
L105 ANSWER 1 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2001:423412 HCAPLUS  
 DN 135:30294  
 ED Entered STN: 12 Jun 2001  
 TI Synergistic insecticidal compositions containing oxadiazoline derivatives, insect control, and enhancement of insecticidal action of the derivatives  
 IN Akayama, Atsuo  
 PA Takeda Chemical Industries, Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 67 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM C07D413-04  
 ICS A01N043-836; C07D413-14  
 CC 5-4 (Agrochemical Bioregulators)  
 Section cross-reference(s): 28  
 FAN.CNT 1
 

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI JP 2001158785	A2	20010612	JP 1999-340604	19991130 <--
PRAI JP 1999-340604		19991130 <--		

 CLASS
 

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
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JP 2001158785	ICM	C07D413-04
	ICS	A01N043-836; C07D413-14

 OS MARPAT 135:30294  
 GI



**AB** Insecticidal compns. contain the derivs. I [R<sub>1</sub> = C<sub>1</sub>-6 alkyl, C<sub>1</sub>-6 haloalkyl; n = 0, 1, 2; X = NR<sub>2</sub>R<sub>3</sub> (R<sub>2</sub>, R<sub>3</sub> = H, C<sub>1</sub>-6 alkyl which may be substituted with pyridyl), N:CHOR<sub>4</sub> (R<sub>4</sub> = C<sub>1</sub>-6 alkyl), N:CHNR<sub>6</sub>R<sub>7</sub> (R<sub>6</sub>, R<sub>7</sub> = H, C<sub>1</sub>-6 alkyl), N:CHAr (Ar = Ph which may be substituted with OH or C<sub>1</sub>-3 alkoxy), pyrrolyl; R<sub>5</sub> = (un)substituted alkyl, (un)substituted acyl; R<sub>8</sub> = halo, C<sub>1</sub>-6 haloalkyl, C<sub>1</sub>-6 haloalkoxy, Ph which may be substituted with C<sub>1</sub>-6 haloalkyl; A = N, CR<sub>9</sub> (R<sub>9</sub> = Cl, cyano); B = N, CH] or their salts and other agrochem. components such as insecticidal clothianidin, nitenpyram, cartap hydrochloride, bensultap, pyraclofos, etc. Insects are controlled by combined use of I or their salts with the other agrochem. components. Insecticidal activity of I or their salts is enhanced by combined use with the other agrochem. components. I (n = 1, R<sub>1</sub> = R<sub>8</sub> = CF<sub>3</sub>, R<sub>5</sub> = CONMe<sub>2</sub>, A = CCl, B = N, X = N:CHOCHMe<sub>2</sub>) (preparation given) and clothianidin showed synergistic action against *Plutella maculipennis* larvae in pot culture of cabbage. Agrochem. formulations containing I were also given.

**ST** oxadiazoline deriv synergistic insecticide; clothianidin oxadiazoline deriv synergistic insecticide

**IT** Fungicides  
(agrochem.; preparation of insecticidal oxadiazoline derivs. and synergistic agrochem. insecticides containing them)

**IT** Insecticides  
(preparation of insecticidal oxadiazoline derivs. and synergistic agrochem. insecticides containing them)

**IT** Insecticides  
(synergistic; preparation of insecticidal oxadiazoline derivs. and synergistic agrochem. insecticides containing them)

**IT** 15263-52-2, Cartap hydrochloride 17606-31-4, Bensultap 89784-60-1, Pyraclofos 150824-47-8, Nitenpyram 210880-92-5, Clothianidin 230643-18-2 230643-57-9 230643-58-0 230643-59-1 230643-60-4  
230643-61-5 230643-62-6 230643-63-7 230643-64-8 230643-65-9  
230643-66-0 230643-67-1 230643-68-2 230643-69-3 230643-70-6  
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230644-28-7 230644-29-8 230644-30-1 230644-31-2 230644-32-3  
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 251564-05-3 **251564-06-4** 251564-07-5 **251564-08-6**

344335-80-4 344335-83-7 344335-84-8 344335-85-9 344335-86-0

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(preparation of insecticidal oxadiazoline derivs. and synergistic agrochem. insecticides containing them)

IT 230643-10-4P 230643-11-5P 230643-12-6P 230643-13-7P 230643-14-8P  
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 230644-49-2P 251563-81-2P 251563-82-3P 251563-83-4P 251563-84-5P  
 251563-85-6P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of insecticidal oxadiazoline derivs. and synergistic agrochem. insecticides containing them)

IT 109-89-7, Diethylamine, reactions 121-33-5, Vanillin 122-51-0, Triethyl orthoformate 123-62-6, Propionic acid anhydride 624-83-9, Methyl isocyanate 696-59-3, 2,5-Dimethoxy tetrahydrofuran 2491-06-7, N,N-Dimethylglycine hydrochloride 3282-30-2, Pivaloyl chloride 4447-60-3, Triisopropyl orthoformate 4637-24-5 24424-99-5, Di-tert-butyl dicarbonate 194942-26-2 194942-27-3 194942-29-5 194942-30-8 194942-31-9 230643-32-0 251564-09-7

RL: RCT (Reactant); RACT (Reactant or reagent)

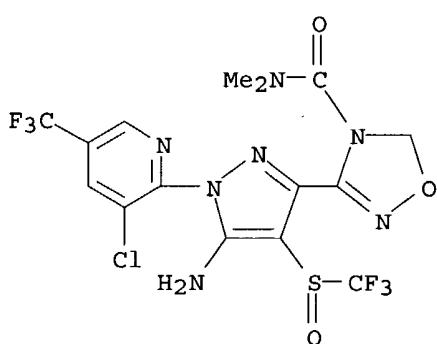
(preparation of insecticidal oxadiazoline derivs. and synergistic agrochem. insecticides containing them)

IT **251564-06-4 251564-08-6**  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

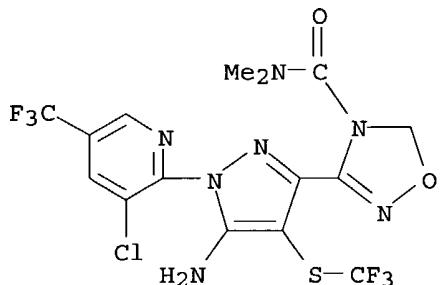
(preparation of insecticidal oxadiazoline derivs. and synergistic agrochem. insecticides containing them)

RN 251564-06-4 HCPLUS

CN 1,2,4-Oxadiazole-4(5H)-carboxamide, 3-[5-amino-1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-4-[(trifluoromethyl)sulfinyl]-1H-pyrazol-3-yl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 251564-08-6 HCAPLUS  
 CN 1,2,4-Oxadiazole-4(5H)-carboxamide, 3-[5-amino-1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-4-[(trifluoromethyl)thio]-1H-pyrazol-3-yl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



L105 ANSWER 2 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2001:421116 HCAPLUS  
 DN 135:30293  
 ED Entered STN: 12 Jun 2001  
 TI Ectoparasiticides containing oxadiazoline derivatives and control of ectoparasites in mammals  
 IN Akayama, Atsuo  
 PA Takeda Chemical Industries, Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 63 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM C07D413-04  
 ICS A01N043-836; C07D413-14  
 CC 5-4 (Agrochemical Bioregulators)  
 Section cross-reference(s): 28

## FAN.CNT 1

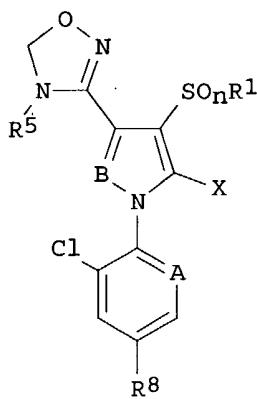
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001158786	A2	20010612	JP 1999-340605	19991130 <--
PRAI	JP 1999-340605		19991130	<--	

## CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2001158786	ICM	C07D413-04
	ICS	A01N043-836; C07D413-14

OS MARPAT 135:30293

GI



AB Ectoparasites, e.g. arachnids, flies, lice, fleas, etc., are controlled by administration of the derivs. I [R1 = C1-6 alkyl, C1-6 haloalkyl; n = 0, 1, 2; X = NR2R3 (R2, R3 = H, C1-6 alkyl which may be substituted with pyridyl), N:CHOR4 (R4 = C1-6 alkyl), N:CHNR6R7 (R6, R7 = H, C1-6 alkyl), N:CHAR (Ar = Ph which may be substituted with OH or C1-3 alkoxy), pyrrolyl; R5 = (un)substituted alkyl, (un)substituted acyl; R8 = halo, C1-6 haloalkyl, C1-6 haloalkoxy, Ph which may be substituted with C1-6 haloalkyl; A = N, CR9 (R9 = Cl, cyano); B = N, CH] or their salts to mammals. I (X = N:CHOEt, n = 1, R1 = R8 = CF3, R5 = CONMe2, A = CCl, B = N) was prepared Emulsions, feed additive granules, oral liqs., injections, aerosols, etc. containing I were also formulated.

ST oxadiazoline deriv prepn ectoparasiticide mammal; parasiticide ecto  
oxadiazoline deriv prepn

IT Parasiticides  
(ecto-; preparation of oxadiazoline derivs. as ectoparasiticides for mammals)

IT Drug delivery systems  
(injections; preparation of oxadiazoline derivs. as ectoparasiticides for mammals)

IT Drug delivery systems  
(oral; preparation of oxadiazoline derivs. as ectoparasiticides for mammals)

IT Mammal (Mammalia)  
Pesticide formulations  
(preparation of oxadiazoline derivs. as ectoparasiticides for mammals)

IT Drug delivery systems  
(topical; preparation of oxadiazoline derivs. as ectoparasiticides for mammals)

IT Drugs  
(veterinary; preparation of oxadiazoline derivs. as ectoparasiticides for mammals)

IT 230643-10-4P	230643-11-5P	230643-12-6P	230643-13-7P	230643-14-8P
230643-15-9P	230643-16-0P	230643-17-1P	230643-19-3P	230643-21-7P
230643-22-8P	230643-23-9P	230643-24-0P	230643-25-1P	230643-26-2P
230643-27-3P	230643-28-4P	230643-29-5P	230643-30-8P	230643-31-9P
230643-33-1P	230643-34-2P	230643-35-3P	230643-72-8P	230643-85-3P
230644-49-2P	251563-81-2P	251563-82-3P	251563-83-4P	251563-84-5P
251563-85-6P				

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of oxadiazoline derivs. as ectoparasiticides for mammals)

IT 230643-18-2	230643-57-9	230643-58-0	230643-59-1	230643-60-4
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230643-71-7	230643-73-9	230643-74-0	230643-75-1	230643-76-2
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230643-82-0	230643-83-1	230643-84-2	230643-86-4	230643-87-5
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230643-98-8	230643-99-9	230644-00-5	230644-01-6	230644-02-7
230644-03-8	230644-04-9	230644-05-0	230644-06-1	230644-07-2
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230644-43-6	230644-44-7	230644-45-8	230644-46-9	230644-47-0
230644-48-1	230644-50-5	230644-51-6	230644-52-7	230644-53-8
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251563-99-2	251564-00-8	251564-01-9	251564-02-0	251564-03-1
251564-04-2	251564-05-3	<b>251564-06-4</b>	251564-07-5	

**251564-08-6**

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(preparation of oxadiazoline derivs. as ectoparasiticides for mammals)

IT 109-89-7, Diethylamine, reactions 121-33-5, Vanillin 122-51-0,  
 Triethyl orthoformate 123-62-6, Propionic acid anhydride 624-83-9,  
 Methyl isocyanate 696-59-3, 2,5-Dimethoxy tetrahydrofuran 2491-06-7,  
 N,N-Dimethylglycine hydrochloride 3282-30-2, Pivaloyl chloride  
 4447-60-3, Triisopropyl orthoformate 4637-24-5 24424-99-5,  
 Di-tert-butyl dicarbonate 194942-26-2 194942-27-3 194942-29-5  
 194942-30-8 194942-31-9 230643-32-0 251564-09-7

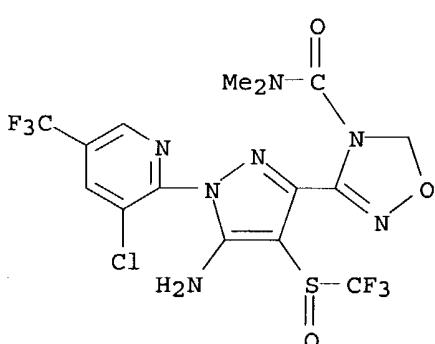
RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of oxadiazoline derivs. as ectoparasiticides for mammals)

IT **251564-06-4 251564-08-6**  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

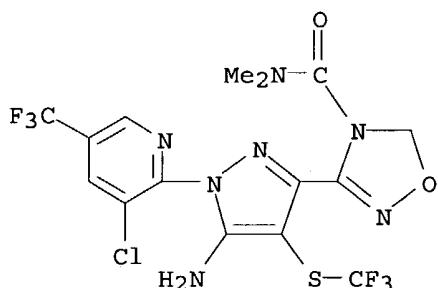
(preparation of oxadiazoline derivs. as ectoparasiticides for mammals)

RN 251564-06-4 HCPLUS  
 CN 1,2,4-Oxadiazole-4(5H)-carboxamide, 3-[5-amino-1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-4-[(trifluoromethyl)sulfinyl]-1H-pyrazol-3-yl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 251564-08-6 HCPLUS

CN 1,2,4-Oxadiazole-4(5H)-carboxamide, 3-[5-amino-1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-4-[(trifluoromethyl)thio]-1H-pyrazol-3-yl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



L105 ANSWER 3 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1999:784098 HCAPLUS

DN 132:12312

ED Entered STN: 10 Dec 1999

TI Preparation of (phenylpyrazolyl)oxadiazolines and analogs as insecticides

IN Kando, Yasuyuki; Noguchi, Makoto; Akayama, Atsuo; Masada, Shinichi; Kiji, Toshiyuki

PA Takeda Chemical Industries, Ltd., Japan

SO PCT Int. Appl., 116 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C07D413-04

ICS C07D413-14; A01N043-836

CC 28-10 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 5

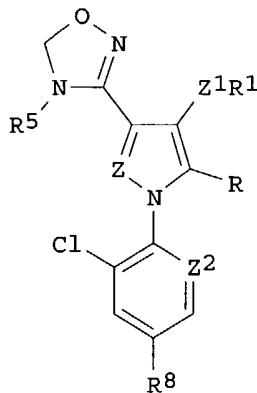
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9962903	A1	19991209	WO 1999-JP2876	19990531 <--
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AU	9939573	A1	19991220	AU 1999-39573	19990531 <--
JP	2000344767	A2	20001212	JP 1999-151959	19990531 <--
BR	9910912	A	20010306	BR 1999-10912	19990531 <--
EP	1084121	A1	20010321	EP 1999-922586	19990531 <--
EP	1084121	B1	20020731		
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AT	221529	E	20020815	AT 1999-922586	19990531 <--
ES	2177275	T3	20021201	ES 1999-922586	19990531 <--
CN	1131863	B	20031224	CN 1999-809190	19990531 <--
US	6288088	B1	20010911	US 2000-701544	20001130 <--
PRAI	JP 1998-153166	A	19980602	<--	
	JP 1998-234733	A	19980820	<--	
	JP 1999-95559	A	19990401	<--	
	WO 1999-JP2876	W	19990531	<--	

CLASS

PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES

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 WO 9962903 ICM C07D413-04  
 ICS C07D413-14; A01N043-836  
 OS MARPAT 132:12312  
 GI



AB Title compds. [I; R = NR<sub>2</sub>R<sub>3</sub>, N:CHOR<sub>4</sub>, N:CHPh, etc.; R<sub>1</sub> = (halo)alkyl; R<sub>2</sub>,R<sub>3</sub> = H, (pyridyl)alkyl; R<sub>4</sub> = alkyl; R<sub>5</sub> = (un)substituted alkyl, -acyl; Z = N or CH; Z<sub>1</sub> = SO<sub>2</sub>-2; Z<sub>2</sub> = N or CR<sub>9</sub>; R<sub>9</sub> = Cl or cyano] were prepared. Thus, I (R = NH<sub>2</sub>, Z<sub>1</sub>R<sub>1</sub> = SO<sub>2</sub>CF<sub>3</sub>, R<sub>8</sub> = CF<sub>3</sub>, Z = N, Z<sub>2</sub> = CC<sub>1</sub>) (II; R<sub>5</sub> = H) was condensed with HC(OCHMe<sub>2</sub>)<sub>3</sub> to give II [R<sub>5</sub> = (Me<sub>2</sub>CHO)<sub>2</sub>CH]. Data for biol. activity of I were given.

ST oxadiazoline phenylpyrazolyl prepn insecticide

IT Insecticides

(phenylpyrazolyl)oxadiazolines and analogs)

IT 230643-23-9P 230643-25-1P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(oxadiazoline derivs. and their use as insecticides)

IT	230643-15-9P	230643-16-0P	230643-17-1P	230643-18-2P	230643-19-3P
	230643-21-7P	230643-22-8P	230643-24-0P	230643-26-2P	230643-27-3P
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	230643-35-3P	230643-57-9P	230643-58-0P	230643-59-1P	230643-60-4P
	230643-61-5P	230643-62-6P	230643-63-7P	230643-64-8P	230643-65-9P
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	230643-81-9P	230643-82-0P	230643-83-1P	230643-84-2P	230643-85-3P
	230643-86-4P	230643-87-5P	230643-88-6P	230643-89-7P	230643-90-0P
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	230643-96-6P	230643-97-7P	230643-98-8P	230643-99-9P	230644-01-6P
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	230644-17-4P	230644-18-5P	230644-19-6P	230644-20-9P	230644-21-0P
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	230644-27-6P	230644-28-7P	230644-29-8P	230644-30-1P	230644-31-2P
	230644-32-3P	230644-33-4P	230644-34-5P	230644-35-6P	230644-36-7P
	230644-37-8P	230644-38-9P	230644-39-0P	230644-40-3P	230644-41-4P
	230644-42-5P	230644-43-6P	230644-44-7P	230644-45-8P	230644-46-9P
	230644-47-0P	230644-48-1P	230644-49-2P	230644-50-5P	230644-51-6P
	230644-52-7P	230644-53-8P	230644-54-9P	230644-55-0P	230644-56-1P
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**251564-06-4P**

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (oxadiazoline derivs. and their use as insecticides)

IT 251563-83-4P

RL: AGR (Agricultural use); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(oxadiazoline derivs. and their use as insecticides)

IT 230646-34-1P 251563-84-5P 251563-85-6P 251564-07-5P

**251564-08-6P**

RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(oxadiazoline derivs. and their use as insecticides)

IT 109-89-7, Diethylamine, reactions 121-33-5, Vanillin 122-51-0,

Triethyl orthoformate 123-62-6, Propionic anhydride 124-40-3,

Dimethylamine, reactions 624-78-2, Ethylmethylamine 624-83-9, Methyl

isocyanate 696-59-3, 2,5-Dimethoxytetrahydrofuran 2491-06-7,

N,N-Dimethylglycine hydrochloride 3282-30-2, Pivaloyl chloride

4447-60-3, Triisopropyl orthoformate 4637-24-5 24424-99-5,

Di-tert-butyl dicarbonate 32315-10-9, Bis(trichloromethyl) carbonate

194941-86-1 194942-26-2 194942-30-8 194942-31-9 230643-32-0

251564-09-7

RL: RCT (Reactant); RACT (Reactant or reagent)

(oxadiazoline derivs. and their use as insecticides)

IT 230643-10-4P 230643-13-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(oxadiazoline derivs. and their use as insecticides)

IT 230643-11-5P 230643-12-6P 230643-14-8P

RL: SPN (Synthetic preparation); PREP (Preparation)

(oxadiazoline derivs. and their use as insecticides)

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) Rhone-Poulenc Agro; EP 0911329 A 1999 HCAPLUS

(2) Takeda Chemical Industries, Ltd; WO 9728126 A 1997 HCAPLUS

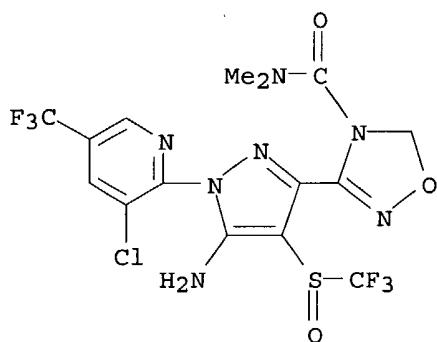
IT **251564-06-4P**

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(oxadiazoline derivs. and their use as insecticides)

RN 251564-06-4 HCAPLUS

CN 1,2,4-Oxadiazole-4(5H)-carboxamide, 3-[5-amino-1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-4-[(trifluoromethyl)sulfinyl]-1H-pyrazol-3-yl]-N,N-dimethyl- (9CI) (CA INDEX NAME)

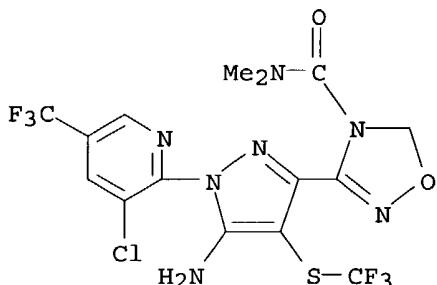


IT 251564-08-6P

RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(oxadiazoline derivs. and their use as insecticides)

RN 251564-08-6 HCPLUS

CN 1,2,4-Oxadiazole-4(5H)-carboxamide, 3-[5-amino-1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-4-[(trifluoromethyl)thio]-1H-pyrazol-3-yl]-N,N-dimethyl- (9CI) (CA INDEX NAME)



L105 ANSWER 4 OF 10 HCPLUS COPYRIGHT 2004 ACS on STN

AN 1999:505793 HCPLUS

DN 131:129990

ED Entered STN: 16 Aug 1999

TI Preparation of 1-aryl-4-cyclopropylpyrazoles as medical and agrochemical parasiticides and pesticides.

IN Banks, Bernard Joseph

PA Pfizer Limited, UK; Pfizer Inc.

SO Eur. Pat. Appl., 33 pp.

CODEN: EPXXDW

DT Patent

LA English

IC ICM C07D231-12

ICS A01N043-56; A61K031-415; C07D231-14; C07D231-16; C07D231-38

CC 28-8 (Heterocyclic Compounds (More Than One Hetero Atom))

Section cross-reference(s): 1, 5

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 933363	A1	19990804	EP 1999-300330	19990119 <--
	EP 933363	B1	20030827		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 11279155	A2	19991012	JP 1999-10416	19990119 <--
	AT 248151	E	20030915	AT 1999-300330	19990119 <--

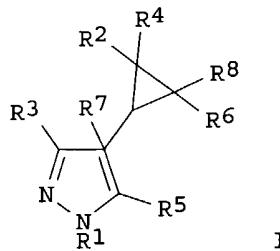
PT 933363	T	20040130	PT 1999-300330	19990119 <--
ES 2205710	T3	20040501	ES 1999-300330	19990119 <--
US 6090394	A	20000718	US 1999-235957	19990122 <--
CA 2260412	C	20021210	CA 1999-2260412	19990127 <--
CA 2260412	AA	19990729		
BR 9900623	A	20000509	BR 1999-623	19990128 <--
US 6019986	A	20000201	US 1999-346161	19990701 <--
US 2002173662	A1	20021121	US 2002-134887	20020429 <--
PRAI GB 1998-1851	A	19980129	<--	
US 1999-235957	A3	19990122	<--	
US 2000-494868	B1	20000131	<--	

## CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES	
EP 933363	ICM	C07D231-12	
	ICS	A01N043-56; A61K031-415; C07D231-14; C07D231-16;	
		C07D231-38	
US 6090394	ECLA	A01N043/56; C07D231/12B3; C07D231/14; C07D231/16;	<--
		C07D231/38B3A	
US 2002173662	ECLA	A01N043/56; C07D231/12B3; C07D231/14; C07D231/16;	<--
		C07D231/38B3A	

OS MARPAT 131:129990

GI



AB Title compds. [I; R1 = 2,4,6-trisubstituted Ph, 3,5-disubstituted pyridin-2-yl; R3 = H, substituted alkyl, alkanoyl; R5 = H, amino, halo; R2, R4 = H, F, Cl, Br; R6, R8 = H; R7 = H, (substituted) alkyl], were prepared. Thus, 4-(2,2-dibromocyclopropyl)-1-(2,6-dichloro-4-trifluoromethylphenyl)-3-formylpyrazole (preparation given) in THF was added to a mixture prepared from BuLi and MePh<sub>3</sub>PBr in THF followed by 24 h stirring to give 4-(2,2-dibromocyclopropyl)-1-(2,6-dichloro-4-trifluoromethylphenyl)-3-ethenylpyrazole. The latter at 0.10 µg/fly gave 100% kill of Stomoxys calcitrans.

ST arylcyclopropylpyrazole prepn medical agrochem parasiticide; pyrazole cyclopropyl aryl prepn medical agrochem parasiticide; insecticide arylcyclopropylpyrazole prep; acaricide arylcyclopropylpyrazole prep

IT Parasiticides  
(ecto-; preparation of arylcyclopropylpyrazoles as medical and agrochem. parasiticides and pesticides)

IT Parasiticides  
(endoparasiticides; preparation of arylcyclopropylpyrazoles as medical and agrochem. parasiticides and pesticides)

IT Acaricides  
Insecticides  
(preparation of arylcyclopropylpyrazoles as medical and agrochem. parasiticides and pesticides)

IT 234450-77-2P 234450-79-4P 234450-80-7P 234450-81-8P 234450-82-9P  
234450-83-0P 234450-84-1P 234450-85-2P 234450-86-3P 234450-87-4P  
234450-88-5P 234450-89-6P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except

adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of arylcyclopropylpyrazoles as medical and agrochem. parasiticides and pesticides)

IT 67-66-3, Chloroform, reactions 75-25-2, Bromoform 75-38-7 356-24-1, Methyl heptafluorobutyrate 378-75-6, Methyl pentafluoropropionate 917-64-6, Methylmagnesium iodide 1066-54-2, Trimethylsilylacetylene 1779-49-3, Methyltriphenylphosphonium bromide 2834-23-3, Chlorodifluoroacetic anhydride 3294-60-8 7486-35-3 120068-79-3, 5-Amino-3-cyano-1-(2,6-dichloro-4-trifluoromethylphenyl)pyrazole 120069-17-2 136476-22-7 144293-01-6 149757-21-1 185615-02-5 188538-69-4

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of arylcyclopropylpyrazoles as medical and agrochem. parasiticides and pesticides)

IT 185617-92-9P 188538-67-2P 188538-68-3P 188539-05-1P 188539-17-5P  
 188539-39-1P 188539-44-8P 188539-59-5P 188539-66-4P 188539-67-5P  
 188539-68-6P 188539-69-7P 188539-70-0P 202827-16-5P 202827-26-7P  
 202827-28-9P 202827-30-3P 202827-33-6P 202827-55-2P 208937-48-8P  
 208937-49-9P 208937-50-2P 208937-51-3P 208937-52-4P 208937-53-5P  
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 208937-77-3P 208937-78-4P 208937-81-9P 208937-83-1P 208937-85-3P  
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 208937-95-5P 208938-06-1P 208938-12-9P 208938-15-2P 208938-18-5P  
 208938-20-9P 208938-21-0P 208938-23-2P 208938-28-7P 208938-30-1P  
 208938-32-3P 208938-49-2P 208938-58-3P 208938-59-4P 208938-60-7P  
 208938-61-8P 208938-62-9P 208938-63-0P 208938-64-1P 208938-65-2P  
 208938-66-3P 208938-67-4P 208938-68-5P 208938-69-6P 208938-70-9P  
 208938-71-0P 208938-72-1P 208938-73-2P 208938-74-3P 208938-75-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of arylcyclopropylpyrazoles as medical and agrochem. parasiticides and pesticides)

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Bayer Ag; EP 0286968 A 1988 HCPLUS
- (2) May & Baker Ltd; EP 0234119 A 1987 HCPLUS
- (3) Pfizer Inc; WO 9707102 A 1997 HCPLUS
- (4) Pfizer Ltd; EP 0846686 A 1998 HCPLUS
- (5) Pfizer Ltd; WO 9824767 A 1998 HCPLUS

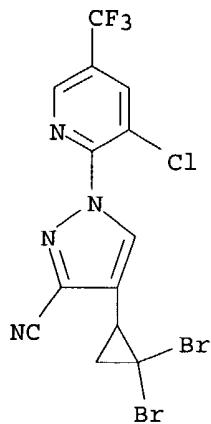
IT **208937-93-3P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of arylcyclopropylpyrazoles as medical and agrochem. parasiticides and pesticides)

RN 208937-93-3 HCPLUS

CN 1H-Pyrazole-3-carbonitrile, 1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-4-(2,2-dibromocyclopropyl)- (9CI) (CA INDEX NAME)



L105 ANSWER 5 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1998:394326 HCAPLUS  
 DN 129:81868  
 ED Entered STN: 27 Jun 1998  
 TI Preparation of cyclopropylpyrazoles with parasiticidal activity  
 IN Banks, Bernard Joseph  
 PA Pfizer Limited, UK; Pfizer Inc.; Banks, Bernard Joseph  
 SO PCT Int. Appl., 98 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 IC ICM C07D231-38  
 ICS A01N043-56; C07D231-14; C07D231-12  
 CC 30-10 (Terpenes and Terpenoids)  
 Section cross-reference(s): 1, 5, 28

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9824767	A1	19980611	WO 1997-EP6697	19971125 <--
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, FI, GB, GE, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	TW 524667	B	20030321	TW 1997-86115810	19971024 <--
	AU 9854859	A1	19980629	AU 1998-54859	19971125 <--
	AU 720705	B2	20000608		
	EP 946515	A1	19991006	EP 1997-951271	19971125 <--
	EP 946515	B1	20030305		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, SI, LV, FI, RO				
	BR 9713565	A	20000314	BR 1997-13565	19971125 <--
	JP 2000505812	T2	20000516	JP 1998-525178	19971125 <--
	CN 1258282	A	20000628	CN 1997-180334	19971125 <--
	CN 1106386	B	20030423		
	NZ 335611	A	20010126	NZ 1997-335611	19971125 <--
	AT 233736	E	20030315	AT 1997-951271	19971125 <--
	CA 2273951	C	20030401	CA 1997-2273951	19971125 <--
	PT 946515	T	20030630	PT 1997-951271	19971125 <--
	ES 2191870	T3	20030916	ES 1997-951271	19971125 <--
	IL 150088	A1	20040328	IL 1997-150088	19971125 <--

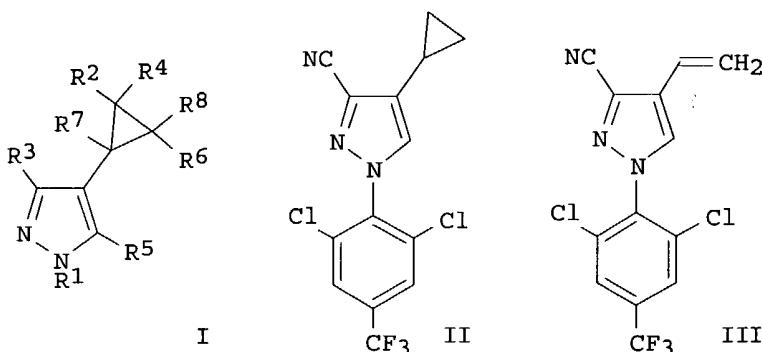
ZA 9710903	A	19990604	ZA 1997-10903	19971204 <--
AP 870	A	20000908	AP 1997-1157	19971204 <--
W: MW, GM, KE, UG, ZM, ZW				
HR 970663	B1	20031031	HR 1997-970663	19971204 <--
BG 64127	B1	20040130	BG 1999-103454	19990601 <--
US 6075043	A	20000613	US 1999-319310	19990603 <--
NO 9902732	A	19990805	NO 1999-2732	19990604 <--
KR 2000057432	A	20000915	KR 1999-705032	19990605 <--
US 6268509	B1	20010731	US 2000-511885	20000223 <--
HK 1029111	A1	20030926	HK 2000-108339	20001221 <--
PRAI GB 1996-25290	A	19961205	<--	
GB 1997-2235	A	19970204	<--	
GB 1997-12045	A	19970610	<--	
IL 1997-129866	A3	19971125	<--	
WO 1997-EP6697	W	19971125	<--	
US 1999-319310	A3	19990603	<--	

## CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 9824767	ICM	C07D231-38
	ICS	A01N043-56; C07D231-14; C07D231-12
US 6075043	ECLA	A01N043/56; C07D231/12B3; C07D231/12B5; C07D231/14; C07D231/16; C07D231/18; C07D231/38B3A; <--

OS MARPAT 129:81868

GI



AB Compds. of formula I [R1 = 2,6-disubstituted Ph (2,6-dihalo-4-alkyl-, -4-haloalkyl-, -4-alkoxyalkyl-, -4-haloalkoxyalkyl-, -4-alkyl-SOn-alkyl-, -4-haloalkyl-SOn-alkyl-, -4-F5S-phenyl) or 3,5-disubstituted pyridin-2-yl (3-halo-5-alkyl-, -5-haloalkyl-, -5-alkoxyalkyl-, -5-haloalkoxyalkyl-, -5-alkyl-SOn-alkyl-, haloalkyl-SOn-alkyl-, -5-F5S-phenyl-pyridin-2-yl); R3 = (un)substituted C1-4-alkyl, hydroxyalkyl, haloalkyl, cyano, C1-5 alkanoyl, phenyl; R5 = H C1-4-alkyl, amino or halo; R2, R4 = C1-4-alkyl, fluoro, chloro, bromo or, together with the carbon atom to which they are attached, form a C3-6-cycloalkyl group; R6, R8 H, C1-4-alkyl, fluoro, chloro and bromo; or, when R2 and R4 do not form part of a cycloalkyl group, R2 and R6, together with the carbon atoms to which they are attached, may form a C5-7-cycloalkyl group; and R7 = H, (un)substituted C1-4-alkyl, haloalkyl, alkoxyalkyl; n = 0 - 2] or pharmaceutically, veterinarilly or agriculturally acceptable salts thereof, or solvates of either entity, are parasiticidal agents. Thus, cyclopropylpyrazole II was prepared via cyclopropanation of pyrazole III with diazomethane in ether containing catalytic Pd(OAc)<sub>2</sub>. II showed insecticidal activity vs. Stomoxys calcitrans (100% mortality after 24 h at 0.05 µg/fly) and acaricidal

activity vs. *Boophilus microplus* larvae (100% mortality after 48 h at 0.50 µg/cm<sup>2</sup>).

ST cyclopropylpyrazole prepn parasiticidal insecticidal acaricidal; pyrazole cyclopropyl deriv prepn parasiticidal

IT Pyrethrins  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (analogs; preparation of cyclopropylpyrazoles with parasiticidal activity)

IT Acaricides  
 Insecticides  
 Parasiticides  
 (preparation of cyclopropylpyrazoles with parasiticidal activity)

IT 208937-50-2P 208938-21-0P  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of cyclopropylpyrazoles with parasiticidal activity)

IT 208937-49-9P  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PUR (Purification or recovery); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
 (preparation of cyclopropylpyrazoles with parasiticidal activity)

IT 208937-95-5P 208937-97-7P 208938-01-6P 208938-06-1P  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)  
 (preparation of cyclopropylpyrazoles with parasiticidal activity)

IT 208937-48-8P 208937-51-3P 208937-52-4P 208937-53-5P 208937-54-6P  
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 208937-60-4P 208937-61-5P 208937-62-6P 208937-63-7P 208937-64-8P  
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 208937-70-6P 208937-72-8P 208937-74-0P 208937-76-2P 208937-77-3P  
 208937-78-4P 208937-79-5P 208937-80-8P 208937-81-9P 208937-83-1P  
 208937-85-3P 208937-87-5P 208937-89-7P 208937-91-1P  
**208937-93-3P** 208937-99-9P 208938-03-8P 208938-08-3P  
 208938-10-7P 208938-12-9P 208938-15-2P 208938-18-5P 208938-20-9P  
 208938-23-2P  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of cyclopropylpyrazoles with parasiticidal activity)

IT 67-66-3, reactions 75-25-2, Bromoform 75-38-7 110-83-8, Cyclohexene, reactions 115-11-7, reactions 123-54-6, 2,4-Pentanedione, reactions 142-29-0, Cyclopentene 156-59-2, cis-1,2-Dichloroethylene 334-88-3, Diazomethane 356-24-1, Methyl heptafluorobutyrate 378-75-6, Methyl pentafluoropropionate 540-49-8, 1,2-Dibromoethylene 563-79-1, 2,3-Dimethyl-2-butene 614-16-4, Benzoylacetonitrile 1066-54-2, (Trimethylsilyl)acetylene 1118-61-2, 3-Aminocrotononitrile 1120-56-5, Methylenecyclobutane 1528-30-9, Methylenecyclopentane 2834-23-3, Chlorodifluoroacetic anhydride 3294-60-8, Phenyl (tribromomethyl) mercury 6142-73-0, Methylenecyclopropane 24470-78-8, (Prop-2-yl)triphenylphosphonium iodide 86398-94-9, [2,6-Dichloro-4-(trifluoromethyl)phenyl]hydrazine 106259-87-4, 5-Amino-3-methyl-1-(2,4,6-trichlorophenyl)pyrazole 111234-60-7, 5-Amino-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-3-(trifluoromethyl)pyrazole 120068-79-3, 5-Amino-3-cyano-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]pyrazole

120069-17-2, 5-Amino-3-cyano-1-(2,4,6-trichlorophenyl)pyrazole  
 136476-22-7, (3,3,3-Trifluoropropen-2-yl)zinc bromide N,N,N',N'-tetramethylethylenediamine 1:1 complex 144293-01-6, 5-Amino-1-[3-chloro-5-(trifluoromethyl)pyridin-2-yl]-3-cyanopyrazole 149757-21-1,  
 5-Amino-3-cyano-1-[2,6-dichloro-4-(pentafluorothio)phenyl]pyrazole  
 185615-02-5 188538-69-4

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of cyclopropylpyrazoles with parasiticidal activity)

IT 106204-62-0P 106259-86-3P 111246-42-5P 111246-43-6P 185617-92-9P  
 188538-67-2P 188538-68-3P 188539-05-1P 188539-17-5P 188539-39-1P  
 188539-44-8P 188539-45-9P 188539-46-0P 188539-52-8P 188539-53-9P  
 188539-58-4P 188539-59-5P 188539-66-4P 188539-67-5P,  
 3-Cyano-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]pyrazole-4-carboxaldehyde 188539-68-6P 188539-69-7P 188539-70-0P 188539-72-2P  
 188539-73-3P 188539-74-4P 188539-75-5P 188539-76-6P 188539-77-7P  
 202827-16-5P 202827-26-7P 202827-28-9P 202827-30-3P 202827-33-6P  
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 208938-68-5P 208938-69-6P 208938-70-9P 208938-71-0P 208938-72-1P  
 208938-73-2P 208938-74-3P, 3-Cyano-4-iodo-1-(2,4,6-trichlorophenyl)pyrazole 208938-75-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of cyclopropylpyrazoles with parasiticidal activity)

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Bayer Ag; EP 0280991 A 1988 HCPLUS
- (2) May & Baker Ltd; EP 0234119 A 1987 HCPLUS
- (3) May & Baker Ltd; EP 0295117 A 1988 HCPLUS
- (4) May & Baker Ltd; EP 0295118 A 1988 HCPLUS
- (5) Pfizer; WO 9707102 A 1997 HCPLUS
- (6) Rhone Poulenc Agrochimie; EP 0780378 A 1997 HCPLUS

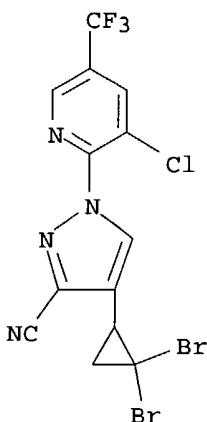
IT 208937-93-3P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of cyclopropylpyrazoles with parasiticidal activity)

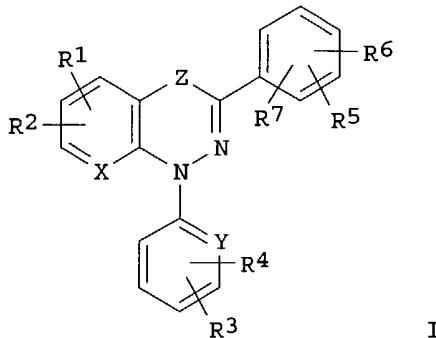
RN 208937-93-3 HCPLUS

CN 1H-Pyrazole-3-carbonitrile, 1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-4-(2,2-dibromocyclopropyl)- (9CI) (CA INDEX NAME)



L105 ANSWER 6 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 1998:236289 HCAPLUS  
 DN 128:270615  
 ED Entered STN: 25 Apr 1998  
 TI Preparation of heterobicyclic herbicides  
 IN Selby, Thomas Paul; Winters, Michael Peter  
 PA E. I. Du Pont de Nemours & Co., USA  
 SO U.S., 45 pp.  
 CODEN: USXXAM  
 DT Patent  
 LA English  
 IC ICM C07D498-04  
 ICS A61K031-535  
 NCL 544066000  
 CC 28-18 (Heterocyclic Compounds (More Than One Hetero Atom))  
 Section cross-reference(s): 5

FAN.CNT 1	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 5739326	A	19980414	US 1996-759742	19961203	<--
PRAI US 1996-759742		19961203	<--		
CLASS					
PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES			
US 5739326	ICM	C07D498-04			
	ICS	A61K031-535			
	NCL	544066000			
OS MARPAT 128:270615					
GI					



AB The title compds. [I; X, Y = N, CH; Z = O, C(O), S, S(O), S(O)2, etc.; R1, R2 = H, halo, CN, etc.; R3 = halo, CN, SF5, etc.; R4 = H, halo, CN, etc.; when R3 and R4 are attached to adjacent atoms, R3R4 = (un)substituted OCH2O, C(CH2)2O; R5 = H, halo, CN, etc.; R6 = H, CN, C1-4 alkyl, etc.; R7 = H, halo], useful for controlling undesired vegetation, were prepared Thus, treatment of (4-fluorophenyl)acetone with lithium diisopropylamide mono(tetrahydrofuran) in THF followed by transferring this solution to a solution

of 2-chloronicotinoyl chloride in THF, reaction of the resulting intermediate with freshly prepared 3-(trifluoromethyl)phenyldiazonium chloride, and treatment of a solution of 1-(chloro-3-pyridinyl)-2-(4-fluorophenyl)-2-[(trifluoromethyl)phenyl]azo]-1,3-butanedione in THF with 1N NaOH afforded I [X = N; Z = C(O); Y = CH; R1 = R2 = R4 = R6 = R7 = H; R5 = 4-F; R3 = 3-CF3] which showed complete control against chickweed, lambsquarter and morningglory at 2000 g/ha in preemergence tests.

ST herbicide heterobicyclic prepn

IT Herbicides

(preparation of heterobicyclic herbicides)

IT	205649-05-4P	205649-06-5P	205649-07-6P	205649-08-7P	205649-09-8P
	205649-10-1P	205649-11-2P	205649-12-3P	205649-13-4P	205649-14-5P
	205649-15-6P	205649-16-7P	205649-17-8P	205649-18-9P	205649-19-0P
	205649-20-3P	205649-21-4P	205649-22-5P	205649-24-7P	205649-26-9P
	205649-27-0P	205649-28-1P	205649-29-2P	205649-30-5P	205649-31-6P
	205649-32-7P	205649-33-8P	205649-35-0P	205649-37-2P	205649-39-4P
	205649-42-9P	205649-44-1P	205649-46-3P	205649-48-5P	205649-50-9P
	205649-52-1P	205649-53-2P	205649-54-3P	205649-55-4P	205649-56-5P
	205649-57-6P	205649-58-7P	205649-59-8P	205649-60-1P	205649-61-2P
	205649-62-3P	205649-63-4P	205649-64-5P	205649-65-6P	205649-66-7P
	205649-67-8P	205649-68-9P	205649-69-0P	205649-70-3P	205649-71-4P
	205649-72-5P	205649-73-6P	205649-74-7P	205649-75-8P	205649-76-9P
	205649-77-0P	205649-79-2P	205649-81-6P	205649-82-7P	205649-83-8P
	205649-84-9P	205649-85-0P	205649-86-1P	205649-87-2P	205649-88-3P
	205649-89-4P	205649-90-7P	205649-91-8P	<b>205649-92-9P</b>	
	<b>205649-93-0P</b>	<b>205649-94-1P</b>	205649-95-2P	205649-96-3P	
	205649-97-4P	205649-98-5P	205649-99-6P	205650-00-6P	205650-01-7P
	205650-02-8P	205650-03-9P	205650-04-0P	205650-05-1P	205650-06-2P
	205650-07-3P	205650-08-4P	205650-09-5P	205650-10-8P	205650-11-9P
	205650-12-0P	205650-13-1P	205650-14-2P	205650-15-3P	205650-16-4P
	205650-17-5P	205650-18-6P	205650-19-7P	205650-20-0P	205650-21-1P
	205650-22-2P	205650-23-3P			

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of heterobicyclic herbicides)

IT 98-16-8, 3-(Trifluoromethyl)aniline 403-43-0, 4-Fluorobenzoyl chloride 459-03-0, (4-Fluorophenyl)acetone 2578-45-2, 2-Chloro-3,5-dinitropyridine 2942-59-8, 2-Chloronicotinic acid 49609-84-9, 2-Chloronicotinyl chloride 94239-06-2  
 RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of heterobicyclic herbicides)

IT 42330-59-6P 111108-72-6P 205650-24-4P 205650-25-5P 205650-26-6P  
 205650-27-7P 205650-28-8P 205650-29-9P 205650-30-2P 205650-31-3P  
 205650-32-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of heterobicyclic herbicides)

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

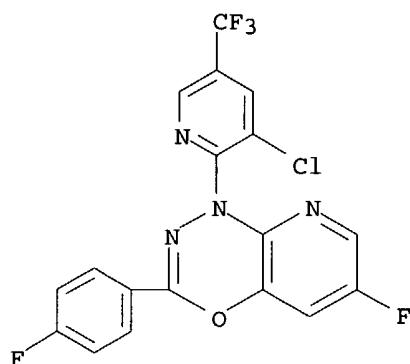
- (1) Anon; EP 555957 A1 1993 HCPLUS
- (2) Anon; EP 634413 A1 1994 HCPLUS
- (3) Blatter; US 3423409 1969 HCPLUS
- (4) Blatter; Tetrahedron Letters 1968, V22, P2701
- (5) Elliott; US 4025510 1977 HCPLUS
- (6) Elliott; Can J Chem 1973, V51, P4115 HCPLUS
- (7) Elliott; Can J Chem 1975, V53, P1484 HCPLUS
- (8) Elliott; J Org Chem 1980, V45, P3677 HCPLUS
- (9) Vukof; J Chem Soc, Perk, Trans 1 1977, 2, P192

IT **205649-92-9P** **205649-93-0P** **205649-94-1P**

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of heterobicyclic herbicides)

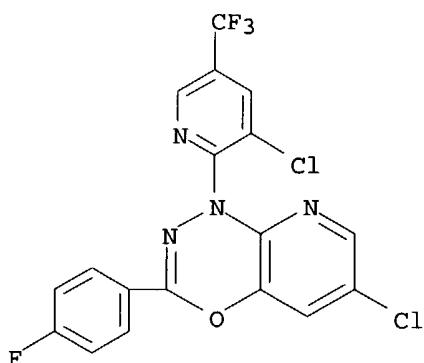
RN 205649-92-9 HCPLUS

CN 1H-Pyrido[2,3-e][1,3,4]oxadiazine, 1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-6-fluoro-3-(4-fluorophenyl)- (9CI) (CA INDEX NAME)



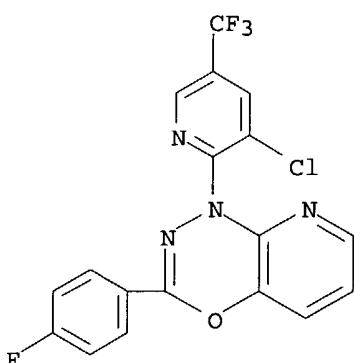
RN 205649-93-0 HCAPLUS

CN 1H-Pyrido[2,3-e][1,3,4]oxadiazine, 6-chloro-1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-3-(4-fluorophenyl)- (9CI) (CA INDEX NAME)



RN 205649-94-1 HCAPLUS

CN 1H-Pyrido[2,3-e][1,3,4]oxadiazine, 1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-3-(4-fluorophenyl)- (9CI) (CA INDEX NAME)



L105 ANSWER 7 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1997:101493 HCAPLUS

DN 126:117980

ED Entered STN: 13 Feb 1997

TI Preparation of 1-phenyl-1,2,4-triazol-5-ones as pesticides

IN Linker, Karl-Heinz; Findeisen, Kurt; Haas, Wilhelm; Lender, Andreas;

Mueller, Klaus-Helmut; Schallner, Otto; Erdelen, Christoph; Turberg, Andreas; Mencke, Norbert  
PA Bayer A.-G., Germany  
SO Ger. Offen., 50 pp.  
CODEN: GWXXBX  
DT Patent  
LA German  
IC ICM C07D249-12  
ICS C07D401-04; C07D403-14; A01N043-653; C07B037-04  
ICA C07C243-22; C07C271-62  
ICI C07D401-04, C07D213-74, C07D249-12; C07D403-14, C07D249-12, C07D213-74, C07D227-04  
CC 28-10 (Heterocyclic Compounds (More Than One Hetero Atom))  
Section cross-reference(s): 5

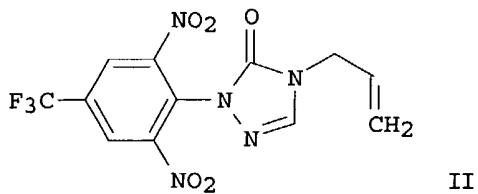
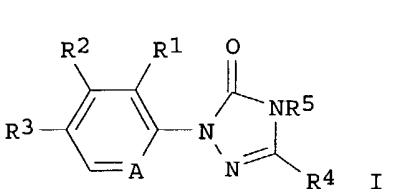
## FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19521162	A1	19961212	DE 1995-19521162	19950609 <--
	WO 9641535	A1	19961227	WO 1996-EP2287	19960528 <--
	W: AU, BB, BG, BR, BY, CA, CN, CZ, HU, JP, KR, KZ, LK, MX, NO, NZ, PL, RO, RU, SK, TR, UA, US				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9661231	A1	19970109	AU 1996-61231	19960528 <--
	AU 703364	B2	19990325		
	EP 831705	A1	19980401	EP 1996-918634	19960528 <--
	EP 831705	B1	20010829		
	R: BE, CH, DE, ES, FR, GB, IT, LI, NL				
	CN 1192123	A	19980902	CN 1996-195972	19960528 <--
	CN 1094725	B	20021127		
	BR 9609884	A	19990323	BR 1996-9884	19960528 <--
	JP 11507651	T2	19990706	JP 1996-502550	19960528 <--
	ES 2162070	T3	20011216	ES 1996-918634	19960528 <--
	US 6258957	B1	20010710	US 1997-973538	19971202 <--
PRAI	DE 1995-19521162	A	19950609	<--	
	WO 1996-EP2287	W	19960528	<--	

## CLASS

	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
	DE 19521162	ICM	C07D249-12
		ICS	C07D401-04; C07D403-14; A01N043-653; C07B037-04
		ICA	C07C243-22; C07C271-62
		ICI	C07D401-04, C07D213-74, C07D249-12; C07D403-14, C07D249-12, C07D213-74, C07D227-04

OS MARPAT 126:117980  
GI



AB Title compds. [I; A = N or CR; R = H, halo, alkyl, (di)(alkyl)carbamoyl, etc.; R1 = halo, alkyl, alkoxy, (di)(alkyl)carbamoyl, etc.; R2 = H, halo, (cyclo)alkyl, etc.; R3 = NO2, haloalkyl, haloalkoxy, SOO-2R6, etc.; R4 (cyclo)alkyl, aryl(alkyl), SOO-2R6, etc.; R5 = H, alk(en)yl, alkoxy, aryl, SOO-2R6, etc.; R6 = (cyclo)alkyl, aryl, etc.] were prepared Thus,

3-trifluoromethyl-4-propenyl-1H-1,2,4-triazol-5-one was arylated by 2,6-dinitro-4-trifluoromethyl-1-chlorobenzene to give title compound II. Data for biol. activity of I were given.

ST phenyltriazolone prepn pesticide  
IT Pesticides

(1-phenyl-1,2,4-triazol-5-ones)

IT	128980-04-1P	186042-00-2P	186042-01-3P	186042-02-4P	186042-03-5P
	186042-04-6P	186042-05-7P	186042-06-8P	186042-07-9P	186042-08-0P
	186042-09-1P	186042-10-4P	<b>186042-11-5P</b>	186042-12-6P	
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	186042-18-2P	186042-19-3P	186042-20-6P	186042-21-7P	186042-22-8P
	186042-23-9P	186042-24-0P	186042-25-1P	186042-26-2P	186042-27-3P
	186042-28-4P	186042-31-9P	186042-33-1P	186042-35-3P	186042-37-5P
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	186042-44-4P	186042-45-5P	186042-46-6P	186042-47-7P	186042-48-8P
	186042-49-9P	186042-50-2P	186042-51-3P	186042-52-4P	186042-53-5P
	186042-54-6P	186042-55-7P	186042-56-8P	186042-57-9P	186042-58-0P
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	186042-64-8P	186042-65-9P	186042-66-0P	186042-67-1P	186042-68-2P
	186042-69-3P	186042-70-6P	186042-71-7P	186042-72-8P	186042-73-9P
	186042-74-0P	186042-75-1P	186042-76-2P	186042-77-3P	186042-78-4P
	186042-79-5P	186042-80-8P	186042-81-9P	186042-82-0P	186042-83-1P
	186042-84-2P	186042-85-3P	186042-86-4P	186042-87-5P	186042-88-6P
	186042-89-7P	186042-90-0P	186042-92-2P	186042-94-4P	186042-96-6P
	186042-98-8P	186043-00-5P	186043-02-7P	186043-04-9P	186043-06-1P
	186043-07-2P	186043-08-3P	186043-09-4P	186043-10-7P	186043-11-8P
	186043-12-9P	186043-13-0P	186043-14-1P	186043-15-2P	186043-16-3P
	186043-17-4P	186043-18-5P	186043-19-6P	186043-20-9P	186043-22-1P
	186043-24-3P	186043-26-5P	186043-27-6P	186043-28-7P	186043-30-1P
	186043-31-2P	186043-33-4P	186043-35-6P	186043-37-8P	186043-40-3P
	186043-42-5P	186043-44-7P	186043-45-8P	186043-47-0P	186043-48-1P
	186043-49-2P	186043-50-5P			

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of 1-phenyl-1,2,4-triazol-5-ones as pesticides)

IT 393-75-9 164352-36-7

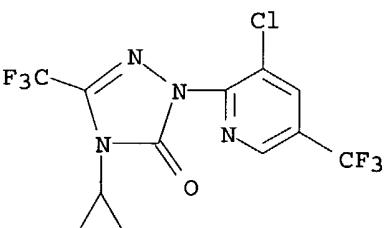
RL: RCT (Reactant); RACT (Reactant or reagent)  
(preparation of 1-phenyl-1,2,4-triazol-5-ones as pesticides)

IT **186042-11-5P**

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of 1-phenyl-1,2,4-triazol-5-ones as pesticides)

RN 186042-11-5 HCAPLUS

CN 3H-1,2,4-Triazol-3-one, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-4-cyclopropyl-2,4-dihydro-5-(trifluoromethyl)- (9CI) (CA INDEX NAME)



ED Entered STN: 22 Dec 1995  
 TI 2-Cyano-1,3-dione derivatives useful as herbicides  
 IN Geach, Neil; Hawkins, David William; Pearson, Christopher John; Smith, Philip Henry Gaunt; White, Nicolas  
 PA Rhone-Poulenc Agriculture Ltd., UK  
 SO PCT Int. Appl., 47 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 IC ICM C07D263-56  
 ICS A01N043-76; C07D317-46; A01N043-30; C07D263-58; C07D277-64;  
 A01N043-78; C07D307-79; C07D317-54; C07D333-64; C07D213-70;  
 C07D213-61; C07D231-12  
 CC 28-6 (Heterocyclic Compounds (More Than One Hetero Atom))  
 Section cross-reference(s): 5

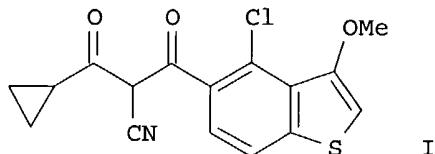
## FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9525099	A1	19950921	WO 1995-EP950	19950314 <--
	W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, KG, KP, KR, KZ, LK, LR, LT, LV, MD, MG, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TT, UA, UG, US, UZ, VN				
	RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	AU 9518942	A1	19951003	AU 1995-18942	19950314 <--
PRAI	GB 1994-5229		19940317	<--	
	WO 1995-EP950		19950314	<--	

## CLASS

	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
	WO 9525099	ICM	C07D263-56
		ICS	A01N043-76; C07D317-46; A01N043-30; C07D263-58; C07D277-64; A01N043-78; C07D307-79; C07D317-54; C07D333-64; C07D213-70; C07D213-61; C07D231-12

OS CASREACT 124:86998; MARPAT 124:86998  
 GI



AB The invention relates to 2-cyano-1,3-dione derivs. R<sub>1</sub>COCH(CN)COAr [I; Ar = certain (un)substituted monocyclic or fused bicyclic heterocyclic systems; R<sub>1</sub> = (un)substituted C<sub>3</sub>-6 cycloalkyl] and their use as herbicides. Fifteen I and over 50 intermediates were prepared. For example, ring cleavage of 4-(4-chloro-3-methoxybenzo[b]thien-5-ylcarbonyl)-5-cyclopropylisoxazole [preparation given] by NaOMe in MeOH at room temperature gave title compound II. At 250 g/ha postemergence, II gave ≥ 90% control of Echinochloa crus-galli.  
 ST cyano dione prepn herbicide; propanedione benzoxazolyl benzodioxolyl prepn herbicide  
 IT Herbicides  
 (preparation of cyano dione derivs. as herbicides)  
 IT 29681-39-8P, Methyl 5-methoxy-2-pyridinecarboxylate 29682-14-2P, Methyl 5-nitro-2-pyridinecarboxylate 30651-24-2P, 5-Nitro-2-pyridinecarboxylic

acid 60891-70-5P, Diethyl 2-(5-nitropyridin-2-yl)malonate 74470-44-3P,  
Methyl 5-methylthio-2-pyridinecarboxylate 104066-09-3P,  
2,5-Dichloro-1-((trimethylacetyl)amino)benzene 120100-42-7P,  
2,4-Dichloro-3-(methoxycarbonyl)benzoic acid 143096-86-0P,  
2,2-Difluoro-1,3-benzodioxole-4-carboxylic acid chloride 146982-77-6P  
146982-85-6P, 2-(3-Cyclopropyl-1,3-dioxoprop-1-yl)-5-methylthiopyridine  
155377-00-7P, 3-(3-Cyclopropyl-1,3-dioxoprop-1-yl)-2-(methylthio)pyridine  
155377-02-9P, 4-(3-Cyclopropyl-1,3-dioxoprop-1-yl)-1-ethyl-3-  
trifluoromethylpyrazole 155377-11-0P, 1-Ethyl-3-trifluoromethylpyrazole-  
4-carboxylic acid 155377-12-1P, 4-Ethoxycarbonyl-1-ethyl-3-  
trifluoromethylpyrazole 155377-16-5P, 1-Ethyl-3-trifluoromethylpyrazole-  
4-carboxylic acid chloride 162505-65-9P 162505-67-1P 162505-68-2P  
162505-69-3P 162505-74-0P 162505-78-4P 162505-87-5P 162506-01-6P  
162506-04-9P, 4-(3-Cyclopropyl-1,3-dioxoprop-1-yl)-2,2-difluoro-1,3-  
benzodioxole 162506-14-1P 162506-15-2P 162506-16-3P 162506-17-4P  
162506-18-5P 162506-39-0P, Methyl 4-chloro-3-methoxybenzo[b]thiophene-5-  
carboxylate 162506-40-3P, 4-Chloro-3-hydroxybenzo[b]thiophene-5-  
carboxylic acid 162506-41-4P, Dimethyl 4-chloro-3-  
hydroxybenzo[b]thiophene-2,5-dicarboxylate 162506-42-5P, Dimethyl  
2,4-dichloroisophthalate 162506-43-6P, 2,4-Dichloro-3-  
(methoxycarbonyl)benzoyl chloride 162506-46-9P, 2,2-Difluoro-4-  
methylthio-1,3-benzodioxole-5-carboxylic acid chloride 162506-54-9P,  
2,2-Difluoro-4-methylthio-1,3-benzodioxole-5-carboxylic acid  
162506-61-8P, 4-Methylthio-1,3-benzodioxole-5-carboxylic acid  
162506-65-2P, 4-Chloro-3-methoxybenzo[b]thiophene-5-carboxylic acid  
162506-66-3P, 2-tert-Butyl-4-methylthiobenzoxazole-7-carboxylic acid  
162506-67-4P, 2-tert-Butyl-4-chlorobenzoxazole-7-carboxylic acid  
162506-68-5P, Methyl 2-tert-butyl-4-chlorobenzoxazole-7-carboxylate  
162506-69-6P, Methyl 2-tert-butyl-4-methylthio-1,3-benzoxazole-7-  
carboxylate 172527-56-9P 172527-57-0P **172527-58-1P**  
172527-59-2P, 5-Cyclopropyl-4-(1,3-benzodioxol-4-oyl)isoxazole  
172527-60-5P 172527-61-6P 172527-62-7P, 4-(1,3-Benzodioxol-5-oyl)-5-  
cyclopropylisoxazole 172527-63-8P 172527-64-9P, 5-(3-Cyclopropyl-1,3-  
dioxoprop-1-yl)-2,3-dihydrobenzo[b]furan 172527-65-0P 172527-66-1P,  
5-(3-Cyclopropyl-1,3-dioxoprop-1-yl)-1,3-benzodioxole 172527-67-2P  
172527-68-3P 172527-69-4P, 2-tert-Butyl-4-chlorobenzoxazole-7-carboxylic  
acid chloride 172527-70-7P, 3-Chloro-5-trifluoromethylpyridine-2-  
carboxylic acid hydrochloride 172527-71-8P, Diethyl 2-(3-chloro-5-  
trifluoromethylpyridin-2-yl)malonate

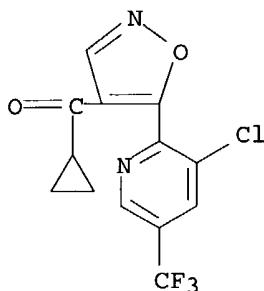
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; preparation of cyano dione derivs. as herbicides)

IT 172527-41-2P 172527-42-3P 172527-43-4P 172527-44-5P 172527-45-6P  
172527-46-7P 172527-47-8P 172527-48-9P 172527-49-0P 172527-50-3P  
172527-51-4P 172527-52-5P 172527-53-6P 172527-54-7P 172527-55-8P  
RL: AGR (Agricultural use); BAC (Biological activity or effector, except  
adverse); BSU (Biological study, unclassified); SPN (Synthetic  
preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(intermediate; preparation of cyano dione derivs. as herbicides)

IT 74-93-1, Methanethiol, reactions 95-82-9, 2,5-Dichloroaniline  
105-53-3, Diethyl malonate 122-51-0, Triethyl orthoformate 624-92-0,  
Dimethyl disulfide 656-46-2, 2,2-Difluoro-1,3-benzodioxole-5-carboxylic  
acid 765-43-5, Methyl cyclopropyl ketone 2365-48-2, Methyl  
thioglycolate 4548-45-2, 2-Chloro-5-nitropyridine 4637-24-5  
5188-07-8, Sodium thiomethoxide 5470-11-1, Hydroxylamine hydrochloride  
14920-87-7, Methyl 2,6-dichlorobenzoate 55745-71-6, 2,3-  
Dihydrobenzo[b]furan-5-carboxylic acid chloride 74470-44-3, Methyl  
5-methylthiopyridine-2-carboxylate 126120-85-2, 2,2-Difluoro-1,3-  
benzodioxole-4-carboxylic acid 134302-07-1, tert-Butyl  
3-cyclopropyl-3-oxopropanoate 155376-66-2, 5-Cyclopropyl-4-(2-  
(methylthio)pyridin-3-oyl)isoxazole 155376-89-9 155377-19-8, Ethyl  
3-trifluoromethylpyrazole-4-carboxylate 172527-72-9  
RL: RCT (Reactant); RACT (Reactant or reagent)

(starting material; preparation of cyano dione derivs. as herbicides)  
IT 172527-58-1P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(intermediate; preparation of cyano dione derivs. as herbicides)  
RN 172527-58-1 HCAPLUS  
CN Methanone, [5-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-4-isoxazolyl]cyclopropyl- (9CI) (CA INDEX NAME)



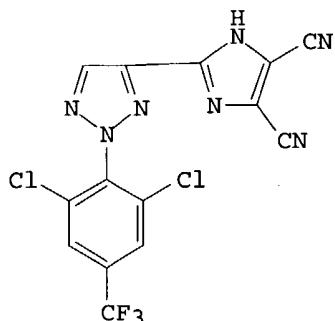
L105 ANSWER 9 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN  
AN 1991:408811 HCAPLUS  
DN 115:8811  
ED Entered STN: 12 Jul 1991  
TI Aryl[(imidazolylaryl)alkyl]triazoles and aryl(imidazolylaryl)triazoles: preparation and pesticidal activity  
IN Willis, Robert John; O'Mahony, Mary Josephine; Roberts, Bryan Glyn  
PA Schering Agrochemicals Ltd., UK  
SO Eur. Pat. Appl., 26 pp.  
CODEN: EPXXDW  
DT Patent  
LA English  
IC ICM C07D403-04  
ICS C07D403-06; C07D403-12; A01N043-50; A01N043-647  
CC 28-10 (Heterocyclic Compounds (More Than One Hetero Atom))  
Section cross-reference(s): 1, 5

FAN.CNT	1	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI		EP 412849	A2	19910213	EP 1990-308857	19900810 <--
		EP 412849	A3	19920415		
		EP 412849	B1	19951220		
		R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
		DD 298101	A5	19920206	DD 1990-343147	19900730 <--
		IL 95307	A1	19951127	IL 1990-95307	19900807 <--
		US 5109012	A	19920428	US 1990-564729	19900808 <--
		CA 2022993	AA	19910211	CA 1990-2022993	19900809 <--
		AU 9060846	A1	19910214	AU 1990-60846	19900809 <--
		AU 627064	B2	19920813		
		HU 54462	A2	19910328	HU 1990-4951	19900809 <--
		HU 208228	B	19930928		
		JP 03083981	A2	19910409	JP 1990-209367	19900809 <--
		ZA 9006289	A	19910626	ZA 1990-6289	19900809 <--
		BR 9003935	A	19910903	BR 1990-3935	19900809 <--
		FI 95379	B	19951013	FI 1990-3944	19900809 <--
		FI 95379	C	19960125		
		CN 1049341	A	19910220	CN 1990-106995	19900810 <--
		CN 1025582	B	19940810		
		AT 131820	E	19960115	AT 1990-308857	19900810 <--

ES 2082828	T3	19960401	ES 1990-308857	19900810 <--
US 5189053	A	19930223	US 1991-797365	19911125 <--
PRAI GB 1989-18314		19890810	<--	
GB 1990-6653		19900324	<--	
US 1990-564729		19900808	<--	

## CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
EP 412849	ICM	C07D403-04
	ICS	C07D403-06; C07D403-12; A01N043-50; A01N043-647
OS MARPAT 115:8811		
GI		



AB Pesticidal 1-aryl-4-[(2-imidazolyl)aryl]alkyl]-1,2,3-triazoles, 2-aryl-4-[(2-imidazolyl)aryl]alkyl]-1,2,3-triazoles, 2-aryl-4-[(2-imidazolyl)aryl]-1,2,3-triazoles, and 1-aryl-4-[(2-imidazolyl)aryl]-1,2,3-triazoles are claimed. The reaction of 2,6,4-C12(F3C)C6H3NHNH2 with 2-oxopropanedial 1,3-dioxime gave the hydrazone, which was subsequently acetylated. This acetate was cyclocondensed to give 2-[(2,6-dichloro-4-(trifluoromethyl)phenyl)-2H-1,2,3-triazole-4-carboxaldehyde oxime, which was hydrolyzed to give the aldehyde. Condensation of the latter with diaminomaleonitrile gave 2-[(2,6-dichloro-4-(trifluoromethyl)phenyl)-4-[(2-amino-1,2-dicyanoethenyl)imino]methyl]-2H-1,2,3-triazole, which cyclized in the presence of DDQ to triazole I. I had pesticidal activity against Lucilia sericata (sheep blowfly), Nilaparvata lugens Stal (brown rice hopper), Tetranychus urticae Koch (two-spotted mite), and anthelmintic activity against Heligmosomoides polygyrus.

ST pesticide arylimidazolylaryllalkyl triazole; triazole arylimidazolylaryllalkyl pesticide; imidazole triazolylalkylaryll alkyl pesticide; anthelmintic arylimidazolylaryllalkyl triazole

IT Anthelmintics  
([dichloro(trifluoromethyl)phenyl](dicyanoimidazolyl)triazole)

IT Pesticides  
(agrochem., aryl[(imidazolylaryl)alkyl]triazoles and aryl(imidazolylaryl)triazoles as)

IT 134183-89-4  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(amination of)

IT 1122-28-7, 1H-Imidazole-4,5-dicarbonitrile  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(bromination of)

IT 94-05-3, Ethyl 2-cyano-3-ethoxyacrylate 141-97-9, Ethyl acetoacetate  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(condensation of)

IT 134184-39-7  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(condensation of, with diaminomaleonitrile)

IT 86398-94-9, 2,6-Dichloro-4-(trifluoromethyl)phenylhydrazine  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (condensation reaction of)

IT 1187-42-4, Diaminomaleonitrile  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (condensation reaction of, with aryltriazolecarboxaldehyde)

IT 4949-44-4 14109-74-1  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (condensation reaction of, with dichloro(trifluoromethyl)aniline)

IT 75701-87-0  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (condensation reaction of, with dichloro(trifluoromethyl)hydrazine)

IT 41886-31-1 94609-23-1  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (condensation reaction of, with dichloro(trifluoromethyl)phenylhydrazine)

IT 1513-50-4, 2-Nitro-4-(trifluoromethyl)phenylhydrazine 5329-12-4,  
 2,4,6-Trichlorophenylhydrazine 80025-72-5 85634-76-0,  
 4-Bromo-2,6-dichlorophenylhydrazine 96406-91-6, 3-Chloro-5-  
 (trifluoromethyl)phenylhydrazine 99479-69-3  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (condensation reaction of, with oxo dioxime)

IT 400-98-6, 2-Nitro-4-(trifluoromethyl)aniline 99479-65-9  
 RL: PROC (Process)  
 (conversion of, to arylmethyltriazolylmethanol)

IT 134184-16-0  
 RL: PROC (Process)  
 (conversion of, to nitrile)

IT 134183-57-6  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (coupling reaction of, with (arylmethyl)triazolethiol)

IT 129366-56-9  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (coupling reaction of, with bromodicyanosilylimidazole)

IT 107-19-7, 2-Propyn-1-ol  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (cyclocondensation of, with azidodichloro(trifluoromethyl)benzene)

IT 123-54-6, 2,4-Pentanedione, reactions 7152-15-0, Ethyl  
 4-methyl-3-oxopentanoate 17094-34-7, Ethyl 4,4-dimethyl-3-oxopentanoate  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (cyclocondensation of, with dichloro(trifluoromethyl)phenylhydrazine)

IT 99479-46-6  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (diazotization and formylation of)

IT 24279-39-8, 2,6-Dichloro-4-(trifluoromethyl)aniline  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (diazotization and reaction of, with Et acetoacetate)

IT 129366-63-8  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (hydrolysis of)

IT 106259-86-3  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (methylation of)

IT 134184-12-6 134184-20-6 135319-60-7  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (oxidation of)

IT 118031-67-7P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (preparation and Mannich reaction of)

IT 134184-43-3P 134184-54-6P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)

(preparation and acetylation of)

IT 134184-36-4P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and bromination and carboxylation of)

IT 134183-70-3P 134183-71-4P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and bromination and pesticidal activity of)

IT 111710-07-7P 134183-63-4P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and bromination of)

IT 134184-30-8P 134184-33-1P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and condensation of, with diaminomaleonitrile)

IT 40953-34-2P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and condensation reaction of, with aryltriazolecarboxaldehyde)

IT 129366-62-7P 134183-28-1P 134183-31-6P 134183-33-8P 134183-38-3P  
 134183-41-8P 134183-49-6P 134183-66-7P 134183-72-5P 134183-81-6P  
 134183-84-9P 134183-87-2P 134183-97-4P 134184-21-7P 134184-27-3P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and condensation reaction of, with diaminomaleonitrile)

IT 113049-04-0P 118030-38-9P 134183-91-8P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and conversion of, to pyrazolecarboxaldehyde)

IT 134183-61-2P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and conversion to (dicyanoimidazolyl)pyrazole derivative)

IT 134183-69-0P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and cyanation and pesticidal activity of)

IT 134183-08-7P 134183-09-8P 134183-11-2P 134183-13-4P 134183-15-6P  
 134183-17-8P 134183-29-2P 134183-32-7P 134183-34-9P 134183-36-1P  
 134183-39-4P 134183-42-9P 134183-50-9P 134183-60-1P 134183-67-8P  
 134183-73-6P 134183-82-7P 134183-85-0P 134183-88-3P 134183-90-7P  
 134183-93-0P 134183-98-5P 134184-13-7P 134184-17-1P 134184-22-8P  
 134184-28-4P 134184-31-9P 134184-34-2P 134184-40-0P 134184-49-9P  
 134213-41-5P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclocondensation reaction of)

IT 133152-04-2P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and cyclocondensation reaction of with propynol)

IT 134183-06-5P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclocondensation reaction of, arylimidazolyltriazole from)

IT 134183-04-3P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and cyclocondensation reaction of, triazole from)

IT 134184-07-9P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and deoxygenation of)

IT 134183-58-7P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and desilylation and pesticidal activity of)

IT 134183-77-0P 134184-08-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and desilylation of)

IT 106204-62-0P 118030-30-1P 134184-24-0P 134184-26-2P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and formylation of)

IT 134184-55-7P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and hydrolysis and cyclocondensation of)

IT 134183-05-4P 134183-80-5P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and hydrolysis of)

IT 134183-18-9P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and methylation and pesticidal activity of)

IT 134183-76-9P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and methylthiolation and desilylation of)

IT 134184-18-2P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and nitration and pesticidal activity of)

IT 135319-61-8P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation and oxidation and pesticidal activity of)

IT 129366-55-8P 134183-30-5P 134183-37-2P 134183-40-7P 134183-48-5P  
 134183-65-6P 134184-38-6P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and oxidation of)

IT 134184-42-2P 134184-46-6P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and oximation of)

IT 134183-19-0P 134183-20-3P **134183-21-4P** 134183-22-5P  
 134183-23-6P 134183-25-8P 134183-26-9P 134183-27-0P 134183-43-0P  
 134183-44-1P 134183-45-2P 134183-46-3P 134183-47-4P 134183-51-0P  
 134183-54-3P 134183-55-4P 134183-56-5P 134183-59-8P 134183-62-3P  
 134183-68-9P 134183-74-7P 134183-75-8P 134183-78-1P 134183-79-2P  
 134183-86-1P 134183-94-1P 134183-95-2P 134183-96-3P 134183-99-6P  
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 134184-10-4P 134184-11-5P 134213-37-9P 134213-38-0P 134213-39-1P  
 135319-59-4P 135319-62-9P  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation and pesticidal activity of)

IT 134184-00-2P 134184-02-4P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and reaction of, with aryl(mercaptomethyl)triazole)

IT 134183-52-1P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and reaction of, with dimethoxyethylamine)

IT 89522-38-3P 134183-03-2P 134183-07-6P 134183-10-1P 134183-12-3P  
 134183-14-5P 134183-16-7P 134183-35-0P 134184-14-8P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and reactions of)

IT 134184-44-4P 134184-47-7P 134213-40-4P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and reduction and cyclocondensation reaction of)

IT 134184-25-1P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and reduction and methylation of)

IT 134183-64-5P 134183-83-8P 134184-37-5P 134184-45-5P 134184-48-8P  
 134184-50-2P 134184-51-3P 134184-53-5P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and reduction of)

IT 50847-09-1P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and silylethoxymethylation of)

IT 114868-61-0P 134183-24-7P 134183-92-9P 134184-15-9P 134184-19-3P  
 134184-23-9P 134184-29-5P 134184-32-0P 134184-35-3P 134184-41-1P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)

IT 134183-53-2P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation, reactions and pesticidal activity of)

IT 22483-09-6  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, with Et aryltriazolecarboximide)

IT 129366-75-2 134184-04-6  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, with allylbromodicyanoimidazole)

IT 76513-69-4  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, with aryl(bromonitroimidazolyl)triazole)

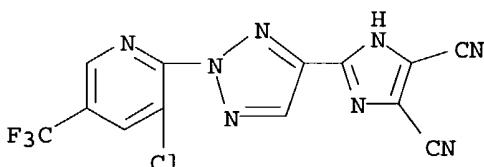
IT 431-67-4, 1,1-Dibromo-3,3,3-trifluoroacetone  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, with aryltriazolecarboxaldehyde)

IT 3490-92-4, Methyl 3,3-bis(methylthio)-2-cyanoacrylate  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, with dichloro(trifluoromethyl)hydrazine)

IT 608-31-1, 2,6-Dichloroaniline  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (reaction of, with propynol)

IT 134183-21-4P  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation and pesticidal activity of)

RN 134183-21-4 HCPLUS  
 CN 1H-Imidazole-4,5-dicarbonitrile, 2-[2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2H-1,2,3-triazol-4-yl]- (9CI) (CA INDEX NAME)



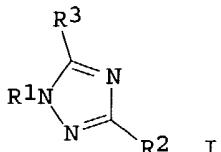
AN 1989:457738 HCAPLUS  
 DN 111:57738  
 ED Entered STN: 20 Aug 1989  
 TI 1,2,4-Triazole derivatives, their preparation, and insecticides containing them as active ingredients  
 IN Nakayama, Yoshinori; Yano, Toshihiko  
 PA Sumitomo Chemical Co., Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 9 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM C07D249-08  
 ICS A01N043-653; C07D249-12; C07D401-04  
 CC 28-10 (Heterocyclic Compounds (More Than One Hetero Atom))  
 Section cross-reference(s): 5  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 63290870	A2	19881128	JP 1987-129405	19870525 <--
PRAI JP 1987-129405		19870525	<--	

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
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	ICS	A01N043-653; C07D249-12; C07D401-04

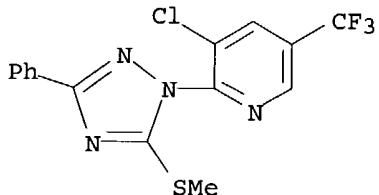
OS MARPAT 111:57738  
 GI



AB The title compds. (I; R1 = CF<sub>3</sub>-substituted 2-ClC<sub>6</sub>H<sub>4</sub> or 2-chloro-2-pyridyl; R2 = H, lower alkyl, Ph; R3 = H, lower alkyl, lower alkylthio, lower alkoxy, substituted Phs) were prepared as insecticides. A stirred mixture of 2,3-dichloro-5-trifluoromethylpyridine 1.30, 3-tert-butyl-5-methylthio-1,2,4-triazole 1.08, and K<sub>2</sub>CO<sub>3</sub> 1.88 g in 80 mL DMF was heated at 180° for 8 h to give 67% I (R1 = 3-chloro-5-trifluoromethyl-2-pyridinyl, R2 = CMe<sub>3</sub>, R3 = SMe) (II). All thirteen I tested at 500 ppm gave 100% fatality against adult *Musca domestica* vicina. A wettable powder containing II 20, fenitrothion 10, Ca ligninsulfonate 8, lauryl Na sulfate 2, and synthetic silica hydrate 65 parts was formulated.

ST triazole deriv prep insecticide  
 IT Insecticides  
 (triazole derivs.)  
 IT 58876-19-0, 3-tert-Butyl-5-methylthio-1,2,4-triazole  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (condensation of, with dichloro(trifluoromethyl)pyridine)  
 IT 630-19-3, Pivalaldehyde  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (condensation of, with phenylhydrazine derivative)  
 IT 86398-98-3  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (condensation of, with pivalaldehyde)  
 IT 328-84-7, 3,4-Dichlorobenzotrifluoride 69045-84-7, 2,3-Dichloro-5-trifluoromethylpyridine  
 RL: RCT (Reactant); RACT (Reactant or reagent)

(condensation of, with triazole derivative)  
IT 333-20-0, Potassium thiocyanate  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(cyclocondensation of, with pivalaldehyde phenylhydrazone derivative)  
IT 121644-73-3P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and cyclocondensation of, with potassium thiocyanate)  
IT 121644-74-4P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and dehydrogenation of)  
IT 121410-31-9P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation and S-methylation of, by Me iodide)  
IT 121644-59-5P 121644-60-8P 121644-61-9P 121644-62-0P 121644-63-1P  
121644-64-2P 121644-65-3P 121644-66-4P 121644-67-5P 121644-68-6P  
121644-69-7P 121644-70-0P 121644-71-1P **121644-72-2P**  
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of, as insecticide)  
IT **121644-72-2P**  
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of, as insecticide)  
RN 121644-72-2 HCPLUS  
CN Pyridine, 3-chloro-2-[5-(methylthio)-3-phenyl-1H-1,2,4-triazol-1-yl]-5-(trifluoromethyl)- (9CI) (CA INDEX NAME)



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=> fil hcplus

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FILE COVERS 1907 - 24 Aug 2004 VOL 141 ISS 9  
 FILE LAST UPDATED: 23 Aug 2004 (20040823/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L81 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN  
 AN 2001:137193 HCAPLUS  
 DN 134:178467  
 ED Entered STN: 25 Feb 2001  
 TI Preparation of pyridine derivatives as phytopathogenic fungicides  
 IN Cooke, Tracey; Hardy, David; Moloney, Brian Anthony; O'Mahony, Mary Josephine; Pettett, Michael George; Patel, Gita; Schnatterer, Stefan  
 PA Aventis CropScience GmbH, Germany  
 SO PCT Int. Appl., 57 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 IC ICM C07D213-61  
 ICS C07D213-89; C07D405-12; C07D213-77; C07D401-12; C07D213-81;  
 C07D213-64; C07D409-12; C07D417-12; C07D498-04; C07D401-06;  
 A01N043-40  
 CC 27-16 (Heterocyclic Compounds (One Hetero Atom))  
 Section cross-reference(s): 5

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001012604	A1	20010222	WO 2000-EP8268	20000811 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
BR 2000013369	A	20020507	BR 2000-13369	20000811 <--
EP 1204642	A1	20020515	EP 2000-954651	20000811 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, MC, IE, SI, LT, LV, FI, RO, MK, CY, AL				
JP 2003507368	T2	20030225	JP 2001-517502	20000811 <--
PRAI GB 1999-19558	A	19990818	<--	

WO 2000-EP8268 W 20000811 &lt;--

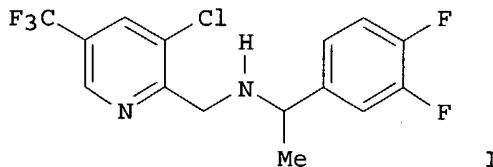
## CLASS

PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES

WO 2001012604	ICM	C07D213-61
	ICS	C07D213-89; C07D405-12; C07D213-77; C07D401-12; C07D213-81; C07D213-64; C07D409-12; C07D417-12; C07D498-04; C07D401-06; A01N043-40

OS MARPAT 134:178467

GI



**AB** The title compds. A1LA2 [A1 = (un)substituted 2-pyridyl or its N-oxide; Ar2 = (un)substituted heterocyclyl, carbocyclyl; L = a 3-atom linker selected from CHR1NR3CHR2, NR3NR4C:X, C:XNR3CHR1, etc. (wherein A1 is attached to the left hand side of linker L); R1, R2 = CN, NO2, halo, etc.; R3, R4 = CN, NO2, alkyl, etc.; any of R1-R4, together with the interconnecting atoms, can form a 5-6 membered ring with any other R1-R4, or any R1-R4, together with the interconnecting atoms can form a 5-6 membered ring with A2; X = O, S, N(alkyl), etc.], useful as phytopathogenic fungicides, were prepared Thus, reacting 1-(3,4-difluorophenyl)-1-ethanamine with 3-chloro-5-(trifluoromethyl)pyridine-2-carboxaldehyde in the presence of Et3N in CH(OMe)3 followed by addition of NaBH3CN/THF and AcOH afforded the title compound I which showed moderate to total control against Leptosphaeria nodorum at 500 ppm or less.

**ST** pyridine prepn agrochem fungicide**IT** Fungicides

(agrochem.; preparation of pyridine derivs. as phytopathogenic fungicides)

**IT** 326807-13-0P 326808-86-0P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(preparation of pyridine derivs. as phytopathogenic fungicides)

116389-04-9P	326476-24-8P	326807-14-1P	326807-15-2P	326807-16-3P
326807-17-4P	326807-18-5P	326807-19-6P	326807-20-9P	326807-21-0P
326807-22-1P	326807-23-2P	326807-24-3P	326807-25-4P	326807-26-5P
326807-27-6P	326807-28-7P	326807-29-8P	326807-30-1P	326807-31-2P
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326807-62-9P	326807-63-0P	326807-64-1P	326807-65-2P	
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326807-70-9P	326807-71-0P	326807-72-1P	<b>326807-73-2P</b>	
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<b>326807-94-7P</b>	326807-95-8P	326807-96-9P	326807-97-0P	
326807-98-1P	326807-99-2P	326808-00-8P	326808-01-9P	326808-02-0P

326808-03-1P	326808-04-2P	326808-05-3P	326808-06-4P	326808-07-5P
326808-08-6P	<b>326808-09-7P</b>	<b>326808-10-0P</b>	326808-11-1P	
326808-12-2P	326808-13-3P	326808-14-4P	326808-15-5P	326808-16-6P
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<b>326808-21-3P</b>	326808-22-4P	326808-23-5P	326808-24-6P	
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326808-45-1P	326808-46-2P	326808-47-3P	326808-48-4P	326808-49-5P
326808-50-8P	326808-51-9P	<b>326808-52-0P</b>	<b>326808-53-1P</b>	
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326808-91-7P	326808-93-9P	326808-95-1P	326808-97-3P	326808-99-5P
326809-00-1P	326809-01-2P	326809-02-3P	326809-03-4P	326809-04-5P
326809-05-6P	326809-06-7P	326809-07-8P	326812-96-8P	

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of pyridine derivs. as phytopathogenic fungicides)

IT 86-55-5, 1-Naphthoic acid 89-98-5, 2-Chlorobenzaldehyde 118-91-2,  
 2-Chlorobenzoic acid 608-31-1, 2,6-Dichloroaniline 614-21-1,  
 2-Nitroacetophenone 1777-82-8, 2,4-Dichlorobenzyl alcohol 3034-19-3,  
 2-Nitrophenylhydrazine 3886-69-9 4659-45-4, 2,6-Dichlorobenzoyl  
 chloride 69045-84-7, 2,3-Dichloro-5-trifluoromethylpyridine  
 70591-20-7, [(Diphenylmethylene)amino]methyl cyanide 75408-89-8,  
 4-Acetylbenzyl oxime 79456-26-1, 2-Amino-3-chloro-5-  
 trifluoromethylpyridine 89570-82-1 118386-83-7 175277-50-6,  
 3-Chloro-5-trifluoromethylpyridine-2-carboxaldehyde 175277-52-8,  
 3-Chloro-2-(chloromethyl)-5-trifluoromethylpyridine 276875-21-9,  
 1-(3,4-Difluorophenyl)-1-ethanamine 326809-08-9 326809-09-0  
 326809-10-3, 2-(3-Bromo-4-methoxyphenyl)-1H-imidazole

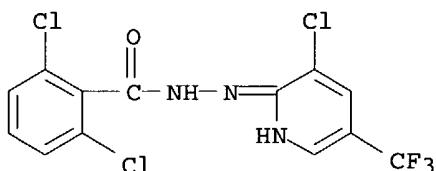
RL: RCT (Reactant); RACT (Reactant or reagent)  
 (preparation of pyridine derivs. as phytopathogenic fungicides)

RE.CNT 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD

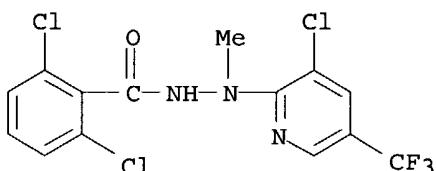
RE

- (1) Agrevo Uk Ltd; GB 2307177 A 1997 HCPLUS
- (2) Agrevo Uk Ltd; WO 9907687 A 1999 HCPLUS
- (3) Anon; PATENT ABSTRACTS OF JAPAN 1983, V007(114), PC-166
- (4) Anon; PATENT ABSTRACTS OF JAPAN 1989, V013(379), PC-628
- (5) Anon; PATENT ABSTRACTS OF JAPAN 1990, V014(310), PC-0736
- (6) Anon; PATENT ABSTRACTS OF JAPAN 1992, V016(148), PC-0928
- (7) Anon; PATENT ABSTRACTS OF JAPAN 1995, V1995(04)
- (8) Basf Ag; EP 0350691 A 1990 HCPLUS
- (9) Basf Ag; WO 9710215 A 1997 HCPLUS
- (10) Bayer Ag; EP 0573883 A 1993 HCPLUS
- (11) Briggs, G; WO 9850352 A 1998 HCPLUS
- (12) Ciba Geigy Ag; EP 0288976 A 1988 HCPLUS
- (13) Ciba Geigy Ag; EP 0577555 A 1994 HCPLUS
- (14) Dow Chemical Co; GB 2068365 A 1981 HCPLUS
- (15) Dow Chemical Co; EP 0287691 A 1988 HCPLUS
- (16) Hamprecht, G; WO 9842671 A 1998 HCPLUS
- (17) Ihara Chemical Ind Co; EP 0648752 A 1995 HCPLUS
- (18) Ishihara Sangyo Kaisha Ltd; JP 02104575 A 1990 HCPLUS
- (19) Ishihara Sangyo Kaisha Ltd; JP 07025853 A 1995 HCPLUS
- (20) Ishihara Sangyo Kk; JP 58035174 A 1983 HCPLUS
- (21) Kyowa Hakko Kogyo Kk; EP 0882717 A 1998 HCPLUS
- (22) La Roche, H; EP 0270061 A 1988 HCPLUS

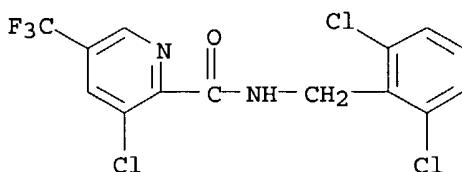
(23) Minn; HCAPLUS  
 (24) Minn; SYNLETT 1991, 2, P115 HCAPLUS  
 (25) Mitsubishi Petrochem Co Ltd; JP 04005282 A 1992 HCAPLUS  
 (26) Mitsui Petrochem Ind Ltd; JP 01131146 A 1989 HCAPLUS  
 (27) Moloney Brian Anthony; WO 9942447 A 1999 HCAPLUS  
 (28) Sumitomo Chemical Co; EP 0469711 A 1992 HCAPLUS  
 (29) Sumitomo Chemical Co; EP 0648729 A 1995 HCAPLUS  
 (30) Uniroyal Chem Co Inc; WO 9207848 A 1992 HCAPLUS  
 IT 326807-66-3P 326807-73-2P 326807-94-7P  
 326808-09-7P 326808-10-0P 326808-21-3P  
 326808-52-0P 326808-53-1P  
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of pyridine derivs. as phytopathogenic fungicides)  
 RN 326807-66-3 HCAPLUS  
 CN Benzoic acid, 2,6-dichloro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)



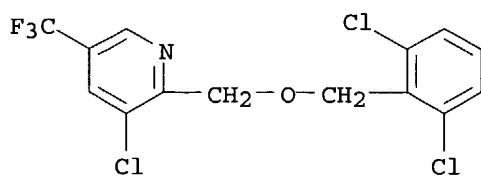
RN 326807-73-2 HCAPLUS  
 CN Benzoic acid, 2,6-dichloro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)



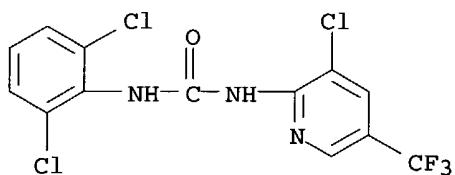
RN 326807-94-7 HCAPLUS  
 CN 2-Pyridinecarboxamide, 3-chloro-N-[(2,6-dichlorophenyl)methyl]-5-(trifluoromethyl)- (9CI) (CA INDEX NAME)



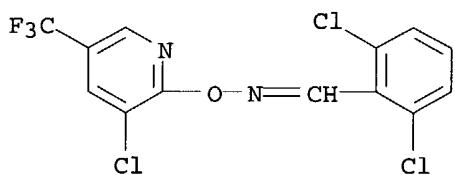
RN 326808-09-7 HCAPLUS  
 CN Pyridine, 3-chloro-2-[(2,6-dichlorophenyl)methoxy]methyl-5-(trifluoromethyl)- (9CI) (CA INDEX NAME)



RN 326808-10-0 HCAPLUS  
 CN Urea, N-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-N'-(2,6-dichlorophenyl)-  
 (9CI) (CA INDEX NAME)

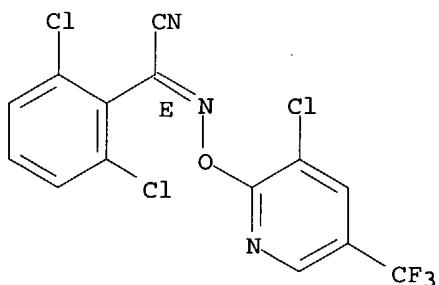


RN 326808-21-3 HCAPLUS  
 CN Benzaldehyde, 2,6-dichloro-, O-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]oxime (9CI) (CA INDEX NAME)



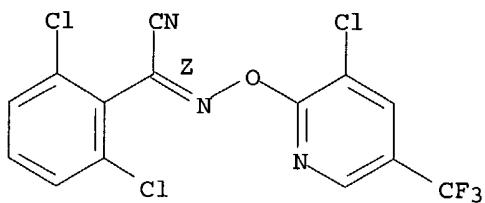
RN 326808-52-0 HCAPLUS  
 CN Benzeneacetonitrile, 2,6-dichloro- $\alpha$ -[[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]oxy]imino]-, ( $\alpha E$ )- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 326808-53-1 HCAPLUS  
 CN Benzeneacetonitrile, 2,6-dichloro- $\alpha$ -[[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]oxy]imino]-, ( $\alpha Z$ )- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L81 ANSWER 2 OF 3 HCPLUS COPYRIGHT 2004 ACS on STN  
 AN 2001:136944 HCPLUS  
 DN 134:174247  
 ED Entered STN: 25 Feb 2001  
 TI Preparation of fungicidal nitrogen compounds.  
 IN Cooke, Tracey; Ekwuru, Tennyson; Hardy, David; Millward, Peter; Moloney, Brian; Pettinger, Andrew; Thomas, Peter Stanley; Turner, Richard Michael  
 PA Aventis CropScience GmbH, Germany  
 SO PCT Int. Appl., 42 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 IC ICM A01N043-40  
 ICS A01N043-82; A01N043-80; A01N043-54; A01N043-56; A01N043-90; A01N043-50; A01N043-78; A01N043-42; A01N043-60; A01N053-00; A01N047-38; A01N047-40; A01N047-24  
 CC 5-2 (Agrochemical Bioregulators)  
 Section cross-reference(s): 27  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001011966	A1	20010222	WO 2000-EP8269	20000811 <--
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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	BR 2000013367	A	20020507	BR 2000-13367	20000811 <--
	EP 1204322	A1	20020515	EP 2000-956481	20000811 <--
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
	JP 2003506466	T2	20030218	JP 2001-516329	20000811 <--
	US 6630495	B1	20031007	US 2002-49981	20020722 <--
PRAI	GB 1999-19588	A	19990818 <--		
	WO 2000-EP8269	W	20000811 <--		

## CLASS

	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
	WO 2001011966	ICM	A01N043-40
		ICS	A01N043-82; A01N043-80; A01N043-54; A01N043-56; A01N043-90; A01N043-50; A01N043-78; A01N043-42; A01N043-60; A01N053-00; A01N047-38; A01N047-40; A01N047-24
	US 6630495	ECLA	A01N043/40; A01N043/42; A01N043/50; A01N043/54; A01N043/56; A01N043/60; A01N043/78; A01N043/80; A01N043/90; A01N047/24; A01N047/38; A01N047/40; A01N053/00 <--

AB The fungicidal nitrogen compds. A1CR1R2NR3LA2 and A1CR1R2N:CYA2 [A1 = (un)unsubstituted 2-pyridyl or its N-oxide; A2 = (un)substituted heterocyclyl or carbocyclyl; R1, R2 = alkyl, alkenyl, cyano, nitro, halo, etc.; L = CO, CS, SO<sub>2</sub>, etc., Y = halo, alkoxy, alkylthio, etc.] are prepared

ST fungicide nitrogen compd prepn

IT 6635-41-2P, 2-Nitrobenzaldoxime 35447-75-7P 326476-24-8P

326476-25-9P 326476-26-0P 326476-48-6P 326476-84-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate in preparation of amide fungicide)

IT	164341-60-0P	326475-66-5P	326475-67-6P	326475-68-7P	326475-69-8P
	326475-70-1P	326475-71-2P	326475-72-3P	326475-73-4P	326475-74-5P
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RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation as fungicide)

IT 106-95-6, Allyl bromide, reactions 552-89-6, 2-Nitrobenzaldehyde  
5470-11-1, Hydroxylamine hydrochloride 16024-82-1 39920-37-1,  
2,6-Dichlorophenyl isocyanate 68182-81-0 69045-84-7,  
2,3-Dichloro-5-trifluoromethylpyridine 70591-20-7,  
(Diphenyl)methyleneaminoacetonitrile 154142-60-6 175277-74-4  
239112-70-0 326476-49-7 326477-10-5

RL: RCT (Reactant); RACT (Reactant or reagent)  
(reactant in preparation of amide fungicide)

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Agrevo Uk Ltd; WO 9907687 A 1999 HCPLUS
- (2) Ash, M; US 4423222 A 1983 HCPLUS
- (3) Bayer Ag; EP 0334138 A 1989 HCPLUS
- (4) Bayer Ag; WO 9708135 A 1997 HCPLUS
- (5) Dainippon; JP 08-208615 A 1996 HCPLUS
- (6) Mitsubishi; JP 07-173139 A 1995 HCPLUS
- (7) Mitsubishi Chem Corp; EP 0726266 A 1996 HCPLUS
- (8) Mitsubishi Chem Ind; EP 0329020 A 1989 HCPLUS
- (9) Moloney, B; WO 9942447 A 1999 HCPLUS
- (10) Takeda Chemical Industries Ltd; EP 0404190 A 1990 HCPLUS
- (11) Tokuyama, S; JP 64-003162 A 1989 HCPLUS
- (12) Torba, F; US 3609158 A 1971 HCPLUS

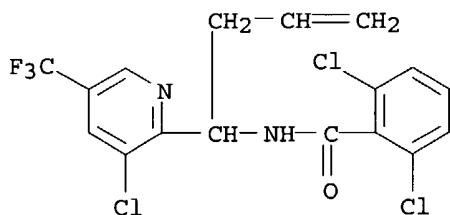
IT **326476-33-9P 326476-72-6P**

RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological

study); PREP (Preparation); USES (Uses)  
(preparation as fungicide)

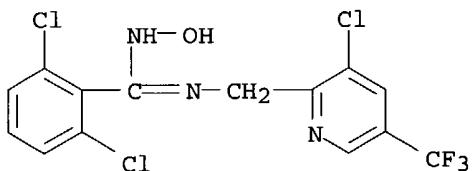
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CN Benzamide, 2,6-dichloro-N-[1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-3-butenyl] - (9CI) (CA INDEX NAME)



RN 326476-72-6 HCPLUS

CN Benzenecarboximidamide, 2,6-dichloro-N-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]methyl]-N'-hydroxy- (9CI) (CA INDEX NAME)



L81 ANSWER 3 OF 3 HCPLUS COPYRIGHT 2004 ACS on STN

AN 1999:549257 HCPLUS

DN 131:170272

ED Entered STN: 31 Aug 1999

TI 2-Pyridylmethylamine derivatives useful as fungicides

IN Moloney, Brian Anthony; Hardy, David; Saville-Stones, Elizabeth Anne

PA Agrevo UK Limited, UK

SO PCT Int. Appl., 39 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C07D213-61

ICS C07D213-26; C07D401-12; C07D213-85; C07D213-65; A01N043-40

CC 27-16 (Heterocyclic Compounds (One Hetero Atom))

Section cross-reference(s): 5

FAN.CNT 1

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PI	WO 9942447	A1	19990826	WO 1999-GB304	19990216 <--
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	CA 2319005	AA	19990826	CA 1999-2319005	19990216 <--
	AU 9925271	A1	19990906	AU 1999-25271	19990216 <--
	AU 751032	B2	20020808		
	TR 200002395	T2	20001121	TR 2000-200002395	19990216 <--
	EP 1056723	A1	20001206	EP 1999-904953	19990216 <--
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JP 2002503723	T2	20020205	JP 2000-532399	19990216 <--
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ZA 9901292	A	19990913	ZA 1999-1292	19990218 <--
NO 2000004159	A	20001017	NO 2000-4159	20000818 <--
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US 2003171410	A1	20030911	US 2002-303464	20021125 <--
PRAI GB 1998-3413	A	19980219	<--	
GB 1998-13998	A	19980630	<--	
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US 2000-622651	A3	20000921		

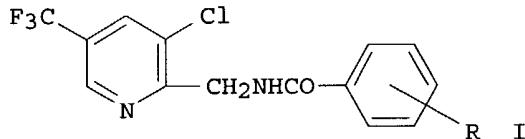
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PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
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WO 9942447	ICM	C07D213-61
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		A01N043-40
US 6503933	ECLA	A01N043/40; C07D213/26; C07D213/61; C07D213/65;
		C07D213/85; C07D401/12
US 2003171410	ECLA	A01N043/40; C07D213/26; C07D213/61; C07D213/65;
		C07D213/85; C07D401/12

OS MARPAT 131:170272

GI



AB Title compds. such as I (R = 2-CF<sub>3</sub>, 3-Br, 4-Cl) were prepared as agricultural fungicides. Thus, 0.35 g [3-chloro-5-(trifluoromethyl)-2-pyridyl]methylamine and 0.39 g 2-(trifluoromethyl)benzoyl chloride reacted in dry ether in the presence of 0.27 mL Et<sub>3</sub>N to give I (R = 2-CF<sub>3</sub>). The products were tested at 500 ppm (w/v) against late blight, vine downy mildew, wheat powdery mildew, rice blast, glume blotch, and gray mold.

ST pyridylmethylamine deriv prep fungicidal activity

IT Fungicides

(agrochem.; 2-pyridylmethylamine derivs.)

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RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(fungicidal 2-pyridylmethylamine derivs.)

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RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(fungicidal 2-pyridylmethylamine derivs.)

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	3,4-dimethoxy-	4659-45-4	16063-70-0	16271-33-3	69555-14-2,
					Ethyl N-(diphenylmethylene)glycinate 175277-74-4
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RL: RCT (Reactant); RACT (Reactant or reagent)

(fungicidal 2-pyridylmethylamine derivs.)

IT 239113-19-0P 239113-21-4P 239113-22-5P 239113-23-6P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (fungicidal 2-pyridylmethylamine derivs.)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

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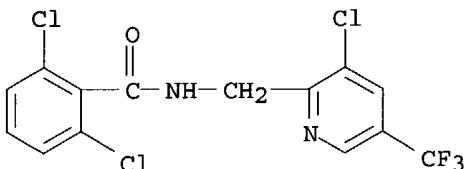
- (1) Bayer AG; DE 2417763 A 1975 HCPLUS
- (2) Fujisawa Pharmaceutical Co; EP 0356234 A 1990 HCPLUS
- (3) Hoechst Schering Agrevo GMBH; DE 4434637 A 1996 HCPLUS
- (4) Shell Agrar GMBH & Co KG; EP 0262393 A 1988 HCPLUS

IT 239110-15-7P 239110-59-9P 239110-79-3P  
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 239112-12-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)  
 (fungicidal 2-pyridylmethylamine derivs.)

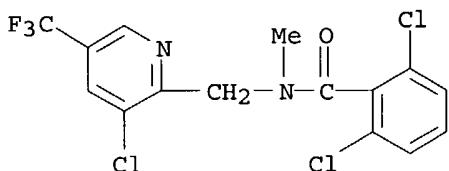
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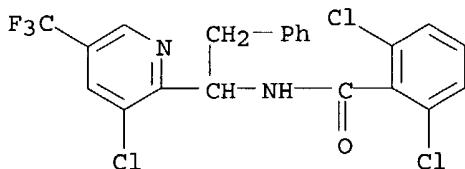
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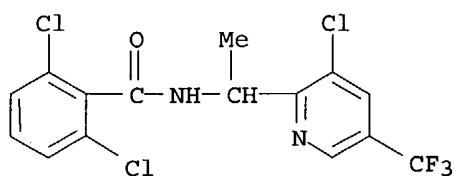
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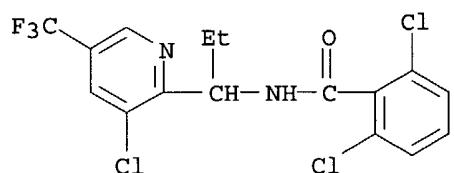


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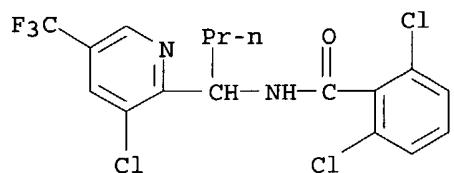
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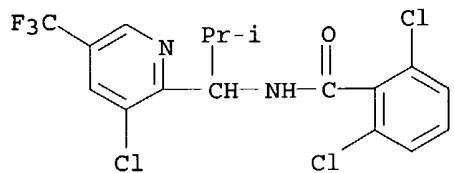
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RN 239111-83-2 HCAPLUS  
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RN 239112-12-0 HCAPLUS  
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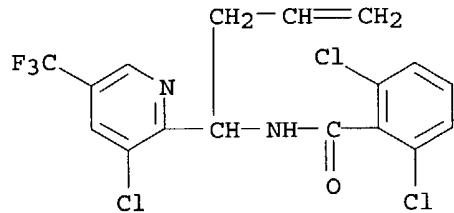
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 IN Cooke, Tracey, St. Albans, UNITED KINGDOM

Ekwuru, Tennyson, Lyon Cedex, FRANCE  
 Hardy, David, Cambridge, UNITED KINGDOM  
 Millward, Peter, Cambridge, UNITED KINGDOM  
 Moloney, Brian, Oxon, UNITED KINGDOM  
 Pettinger, Andrew, Lyons, FRANCE  
 Thomas, Peter Stanley, Cambridge, UNITED KINGDOM  
 Turner, Richard Michael, Cambridge, UNITED KINGDOM  
 PA Bayer Cropscience GmbH, GERMANY, FEDERAL REPUBLIC OF (non-U.S.  
 corporation)  
 PI US 6630495 B1 20031007  
 WO 2001011966 20010222  
 AI US 2002-49981 20020722 (10) <--  
 WO 2000-EP8269 20000811 <--  
 PRAI GB 1999-19588 19990818  
 DT Utility  
 FS GRANTED  
 EXNAM Primary Examiner: Davis, Zinna Northington  
 LREP Ostrolenk, Faber, Gerb & Soffen, LLP  
 CLMN Number of Claims: 3  
 ECL Exemplary Claim: 1  
 DRWN 0 Drawing Figure(s); 0 Drawing Page(s)  
 LN.CNT 1026  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
 AB Compounds of formula (I) or (II): ##STR1##

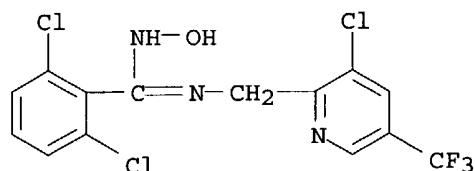
or salts therefor are used as phytopathogenic fungicides wherein the various radicals and substitutents are as defined in the description. Pesticidal compositions contain these compounds together with an agriculturally acceptable diluent or carrier. The compounds and compositions are applied in methods for combating pests.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 326476-33-9P 326476-72-6P  
 (preparation as fungicide)  
 RN 326476-33-9 USPATFULL  
 CN Benzamide, 2,6-dichloro-N-[1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-3-butenyl]- (9CI) (CA INDEX NAME)

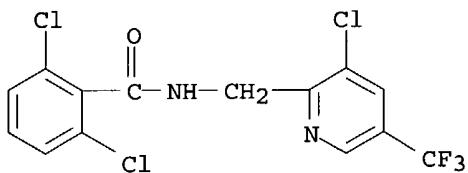


RN 326476-72-6 USPATFULL  
 CN Benzenecarboximidamide, 2,6-dichloro-N-[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]methyl]-N'-hydroxy- (9CI) (CA INDEX NAME)

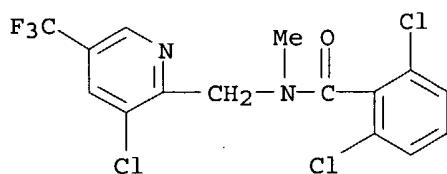


L83 ANSWER 2 OF 3 USPATFULL on STN  
 AN 2003:244996 USPATFULL  
 TI 2-pyridylmethylamine derivatives useful as fungicides  
 IN Moloney, Brian Anthony, Essex, UNITED KINGDOM  
 Hardy, David, Essex, UNITED KINGDOM  
 Saville-Stones, Elizabeth Anne, Essex, UNITED KINGDOM  
 PA Aventis CropScience UK Limited (non-U.S. corporation)  
 PI US 2003171410 A1 20030911  
 AI US 2002-303464 A1 20021125 (10)  
 RLI Division of Ser. No. US 2000-622651, filed on 21 Sep 2000, GRANTED, Pat.  
 No. US 6503933 A 371 of International Ser. No. WO 1999-GB304, filed on  
 16 Feb 1999, UNKNOWN  
 PRAI GB 1998-3414 19980219 <--  
 GB 1998-13998 19980630 <--  
 GB 1998-17353 19980811 <--  
 DT Utility  
 FS APPLICATION  
 LREP OSTROLENK FABER GERB & SOFFEN, 1180 AVENUE OF THE AMERICAS, NEW YORK,  
 NY, 100368403  
 CLMN Number of Claims: 6  
 ECL Exemplary Claim: 1  
 DRWN No Drawings  
 LN.CNT 910  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
 AB Compounds of formula (I) and salts thereof as phytopathogenic fungicides  
 wherein A.sup.1 is substituted 2-pyridyl; A.sup.2 is optionally  
 substituted phenyl; L is --(C.dbd.O)--, --SO.sub.2-- or --(C.dbd.S)--;  
 R.sup.1 is hydrogen, optionally substituted alkyl or acyl; and R.sup.2  
 is hydrogen or optionally substituted alkyl are useful phytopathogenic  
 fungicides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
 IT 239110-15-7P 239110-59-9P 239110-79-3P  
 239110-81-7P 239111-79-6P 239111-83-2P  
 239112-12-0P  
 (fungicidal 2-pyridylmethylamine derivs.)  
 RN 239110-15-7 USPATFULL  
 CN Benzamide, 2,6-dichloro-N-[[3-chloro-5-(trifluoromethyl)-2-  
 pyridinyl]methyl]- (9CI) (CA INDEX NAME)

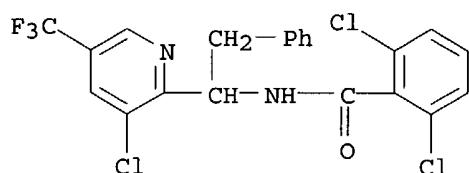


RN 239110-59-9 USPATFULL  
 CN Benzamide, 2,6-dichloro-N-[[3-chloro-5-(trifluoromethyl)-2-  
 pyridinyl]methyl]-N-methyl- (9CI) (CA INDEX NAME)



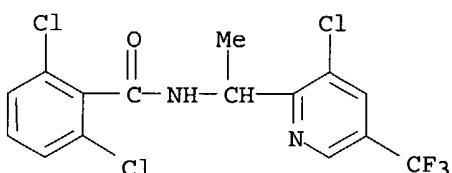
RN 239110-79-3 USPATFULL

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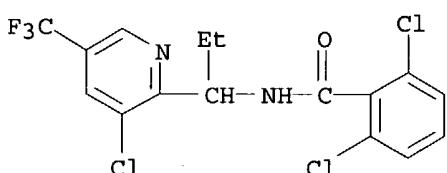
RN 239110-81-7 USPATFULL

CN Benzamide, 2,6-dichloro-N-[1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]ethyl]- (9CI) (CA INDEX NAME)



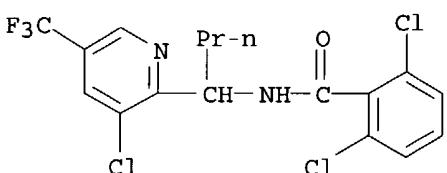
RN 239111-79-6 USPATFULL

CN Benzamide, 2,6-dichloro-N-[1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]propyl]- (9CI) (CA INDEX NAME)



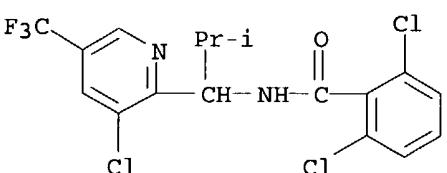
RN 239111-83-2 USPATFULL

CN Benzamide, 2,6-dichloro-N-[1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]butyl]- (9CI) (CA INDEX NAME)



RN 239112-12-0 USPATFULL

CN Benzamide, 2,6-dichloro-N-[1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylpropyl]- (9CI) (CA INDEX NAME)



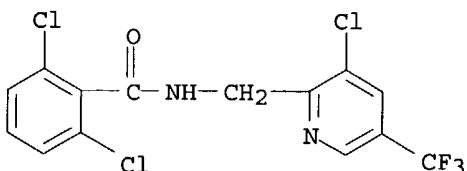
L83 ANSWER 3 OF 3 USPATFULL on STN  
 AN 2003:6922 USPATFULL  
 TI 2-pyridylmethylamine derivatives useful as fungicides  
 IN Moloney, Brian Anthony, Essex, UNITED KINGDOM  
 Hardy, David, Essex, UNITED KINGDOM  
 Saville-Stones, Elizabeth Anne, Essex, UNITED KINGDOM  
 PA Aventis CropScience UK Limited, UNITED KINGDOM (non-U.S. corporation)  
 PI US 6503933 B1 20030107  
 WO 9942447 19990826 <--  
 AI US 2000-622651 20000921 (9)  
 WO 1999-GB304 19990216 <--  
 PRAI GB 1998-3413 19980219 <--  
 GB 1998-13998 19980630 <--  
 GB 1998-17353 19980811 <--  
 DT Utility  
 FS GRANTED  
 EXNAM Primary Examiner: Rotman, Alan L.; Assistant Examiner: Robinson, Binta  
 LREP Ostrolenk, Faber, Gerb & Soffen, LLP  
 CLMN Number of Claims: 9  
 ECL Exemplary Claim: 1  
 DRWN 0 Drawing Figure(s); 0 Drawing Page(s)  
 LN.CNT 772

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

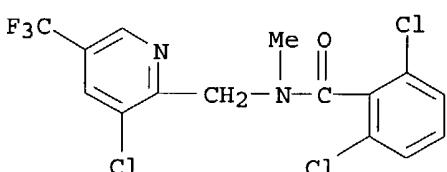
AB Compounds of formula (I) and salts thereof as phytopathogenic fungicides wherein A.sup.1 is substituted 2-pyridyl; A.sup.2 is optionally substituted phenyl; L is --(C.dbd.O)--, --SO.sub.2-- or --(C.dbd.S)--; R.sup.1 is hydrogen, optionally substituted alkyl or acyl; and R.sup.2 is hydrogen or optionally substituted alkyl are useful phytopathogenic fungicides. ##STR1##

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 239110-15-7P 239110-59-9P 239110-79-3P  
 239110-81-7P 239111-79-6P 239111-83-2P  
 239112-12-0P  
 (fungicidal 2-pyridylmethylamine derivs.)  
 RN 239110-15-7 USPATFULL  
 CN Benzamide, 2,6-dichloro-N-[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]methyl]- (9CI) (CA INDEX NAME)

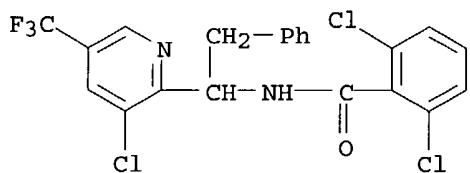


RN 239110-59-9 USPATFULL  
 CN Benzamide, 2,6-dichloro-N-[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]methyl]-N-methyl- (9CI) (CA INDEX NAME)



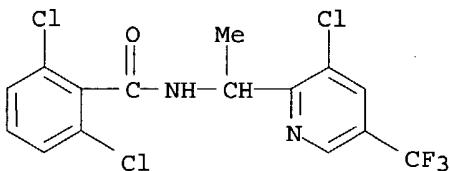
RN 239110-79-3 USPATFULL

CN Benzamide, 2,6-dichloro-N-[1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-phenylethyl]- (9CI) (CA INDEX NAME)



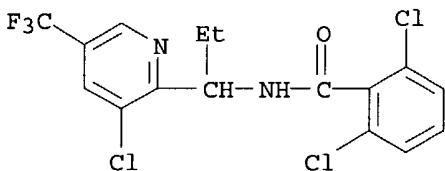
RN 239110-81-7 USPATFULL

CN Benzamide, 2,6-dichloro-N-[1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]ethyl]- (9CI) (CA INDEX NAME)



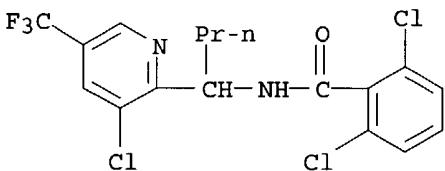
RN 239111-79-6 USPATFULL

CN Benzamide, 2,6-dichloro-N-[1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]propyl]- (9CI) (CA INDEX NAME)



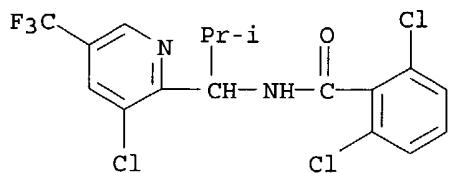
RN 239111-83-2 USPATFULL

CN Benzamide, 2,6-dichloro-N-[1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]butyl]- (9CI) (CA INDEX NAME)



RN 239112-12-0 USPATFULL

CN Benzamide, 2,6-dichloro-N-[1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylpropyl]- (9CI) (CA INDEX NAME)



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=> fil reg
FILE 'REGISTRY' ENTERED AT 09:57:09 ON 24 AUG 2004
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STRUCTURE FILE UPDATES: 23 AUG 2004 HIGHEST RN 731771-88-3  
 DICTIONARY FILE UPDATES: 23 AUG 2004 HIGHEST RN 731771-88-3

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

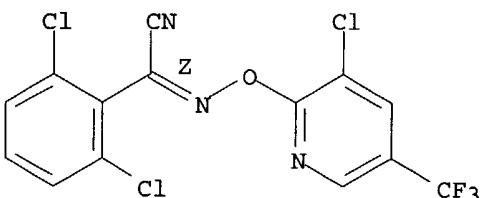
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d ide can tot 178

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L78 ANSWER 1 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN
RN 326808-53-1 REGISTRY
CN Benzeneacetonitrile, 2,6-dichloro- $\alpha$ -[[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]oxylimino]-, ( $\alpha$ Z)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C14 H5 Cl3 F3 N3 O
SR CA
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)
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Double bond geometry as shown.



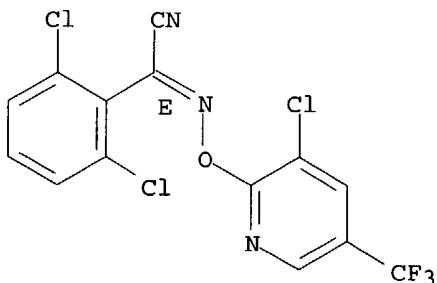
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L78 ANSWER 2 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 326808-52-0 REGISTRY  
 CN Benzeneacetonitrile, 2,6-dichloro- $\alpha$ -[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]oxy]imino]-, ( $\alpha$ E)- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C14 H5 Cl3 F3 N3 O  
 SR CA  
 LC STN Files: CA, CAPLUS  
 DT.CA CAplus document type: Patent  
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

Double bond geometry as shown.

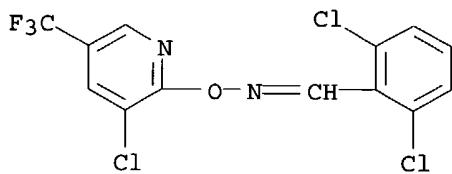


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1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L78 ANSWER 3 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 326808-21-3 REGISTRY  
 CN Benzaldehyde, 2,6-dichloro-, O-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]oxime (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C13 H6 Cl3 F3 N2 O  
 SR CA  
 LC STN Files: CA, CAPLUS  
 DT.CA CAplus document type: Patent  
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

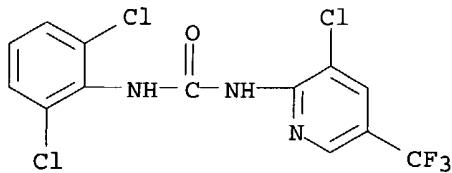


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REFERENCE 1: 134:178467

L78 ANSWER 4 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 326808-10-0 REGISTRY  
 CN Urea, N-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-N'-(2,6-dichlorophenyl)-(9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C13 H7 Cl3 F3 N3 O  
 SR CA  
 LC STN Files: CA, CAPLUS  
 DT.CA CAplus document type: Patent  
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

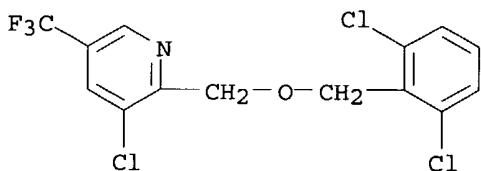


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REFERENCE 1: 134:178467

L78 ANSWER 5 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 326808-09-7 REGISTRY  
 CN Pyridine, 3-chloro-2-[(2,6-dichlorophenyl)methoxy]methyl-5-(trifluoromethyl)-(9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C14 H9 Cl3 F3 N O  
 SR CA  
 LC STN Files: CA, CAPLUS  
 DT.CA CAplus document type: Patent  
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

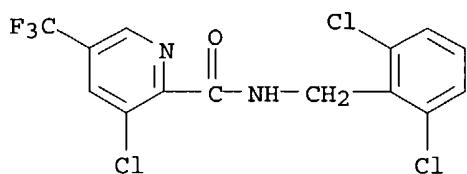


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 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L78 ANSWER 6 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 326807-94-7 REGISTRY  
CN 2-Pyridinecarboxamide, 3-chloro-N-[(2,6-dichlorophenyl)methyl]-5-(trifluoromethyl)- (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C14 H8 Cl3 F3 N2 O  
SR CA  
LC STN Files: CA, CAPLUS  
DT.CA Caplus document type: Patent  
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

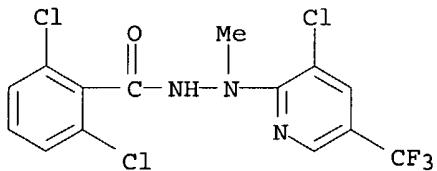


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1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L78 ANSWER 7 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 326807-73-2 REGISTRY  
CN Benzoic acid, 2,6-dichloro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylhydrazide (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C14 H9 Cl3 F3 N3 O  
SR CA  
LC STN Files: CA, CAPLUS  
DT.CA Caplus document type: Patent  
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)



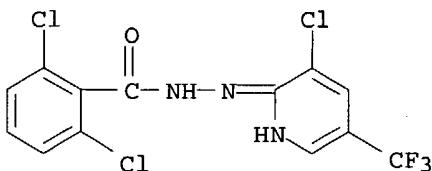
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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L78 ANSWER 8 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 326807-66-3 REGISTRY  
CN Benzoic acid, 2,6-dichloro-, 2-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]hydrazide (9CI) (CA INDEX NAME)  
FS 3D CONCORD

MF C13 H7 Cl3 F3 N3 O  
 SR CA  
 LC STN Files: CA, CAPLUS, CHEMCATS  
 DT.CA CAplus document type: Patent  
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

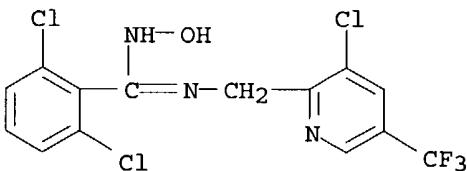


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 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 134:178467

L78 ANSWER 9 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 326476-72-6 REGISTRY  
 CN Benzenecarboximidamide, 2,6-dichloro-N-[[3-chloro-5-(trifluoromethyl)-2-pyridinyl]methyl]-N'-hydroxy- (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C14 H9 Cl3 F3 N3 O  
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 DT.CA CAplus document type: Patent  
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)



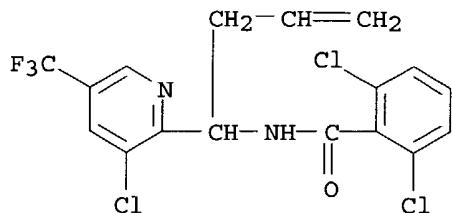
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REFERENCE 1: 134:174247

L78 ANSWER 10 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 326476-33-9 REGISTRY  
 CN Benzamide, 2,6-dichloro-N-[1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-3-butenyl]- (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C17 H12 Cl3 F3 N2 O  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL  
 DT.CA CAplus document type: Patent  
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES

(Uses)

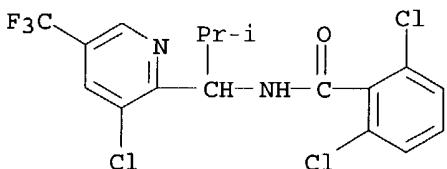


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REFERENCE 1: 134:174247

L78 ANSWER 11 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 239112-12-0 REGISTRY  
 CN Benzamide, 2,6-dichloro-N-[1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-methylpropyl]- (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C17 H14 Cl3 F3 N2 O  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL  
 DT.CA CAplus document type: Patent  
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation)

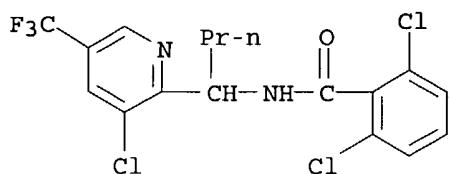


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1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 131:170272

L78 ANSWER 12 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 239111-83-2 REGISTRY  
 CN Benzamide, 2,6-dichloro-N-[1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]butyl]- (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C17 H14 Cl3 F3 N2 O  
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 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation)

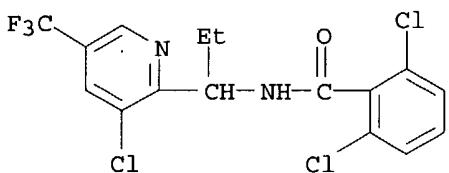


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 131:170272

L78 ANSWER 13 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 239111-79-6 REGISTRY  
CN Benzamide, 2,6-dichloro-N-[1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]propyl]- (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C16 H12 Cl3 F3 N2 O  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL  
DT.CA CAplus document type: Patent  
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation)

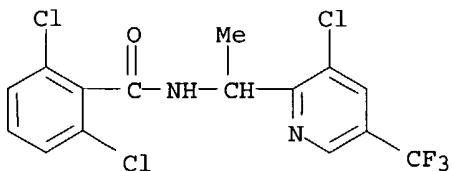


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 131:170272

L78 ANSWER 14 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN  
RN 239110-81-7 REGISTRY  
CN Benzamide, 2,6-dichloro-N-[1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]ethyl]- (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C15 H10 Cl3 F3 N2 O  
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LC STN Files: CA, CAPLUS, USPATFULL  
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RL.P Roles from patents: BIOL (Biological study); PREP (Preparation)

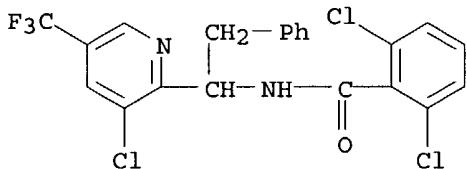


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 131:170272

L78 ANSWER 15 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 239110-79-3 REGISTRY  
 CN Benzamide, 2,6-dichloro-N-[1-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-2-phenylethyl]- (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C21 H14 Cl3 F3 N2 O  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL  
 DT.CA Cplus document type: Patent  
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation)

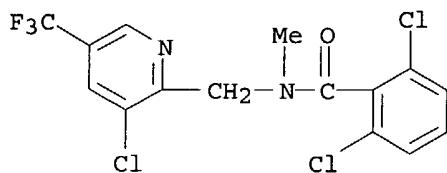


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 131:170272

L78 ANSWER 16 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 239110-59-9 REGISTRY  
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 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL  
 DT.CA Cplus document type: Patent  
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation)

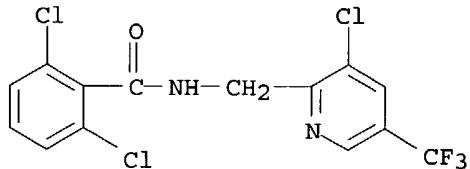


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 131:170272

L78 ANSWER 17 OF 17 REGISTRY COPYRIGHT 2004 ACS on STN  
 RN 239110-15-7 REGISTRY  
 CN Benzamide, 2,6-dichloro-N-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]methyl- (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
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 CI COM  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL  
 DT.CA CAplus document type: Patent  
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation)  
 RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); USES (Uses)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

6 REFERENCES IN FILE CA (1907 TO DATE)  
 4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 138:350011

REFERENCE 2: 138:299225

REFERENCE 3: 137:212299

REFERENCE 4: 137:212298

REFERENCE 5: 136:200109

REFERENCE 6: 131:170272

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